



3270 Information Display System Reference Summary

GX20-1878-3

IBM Corporation, Technical Publications, Dept. 824
White Plains, New York 10604



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This publication is intended for use by application programmers. It will be updated from time to time to reflect system changes. The user is cautioned, however, that the authoritative source of information for this booklet is the *IBM 3270 Information Display System Component Description* (GA27-2749), which will be first to reflect changes.

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CONTROL CHARACTER I/O CODES

Bits 2-7	EBCDIC Hex	ASCII Hex	Graphic EBCDIC/ASCII
00 0000	40	20	SP
00 0001	C1	41	A
00 0010	C2	42	B
00 0011	C3	43	C
00 0100	C4	44	D
00 0101	C5	45	E
00 0110	C6	46	F
00 0111	C7	47	G
00 1000	C8	48	H
00 1001	C9	49	I
00 1010	4A	5B	\$. [
00 1011	4B	2E	^ <
00 1100	4C	3C	(+
00 1101	4D	28	! or !
00 1110	4E	2B	
00 1111	4F	21 [2]	
01 0000	50	26	&
01 0001	D1	4A	J
01 0010	D2	4B	K
01 0011	D3	4C	L
01 0100	D4	4D	M
01 0101	D5	4E	N
01 0110	D6	4F	O
01 0111	D7	50	P
01 1000	D8	51	Q
01 1001	D9	52	R
01 1010	5A	5D	!]
01 1011	5B	24	\$ *
01 1100	5C	2A) ;
01 1101	5D	29	
01 1110	5E	3B	
01 1111	5F	5E [2]	- or ^

1. The following characters are internally handled as 6-bit structured data: graphic, attribute, AID, WCC, CCC, CU and device address, buffer address, and status and sense (except by the 3274 and 3276 when operating in BSC). When any character is received by the CU, only the low-order 6 bits are used. When this character is transmitted to the program, the CU assigns the EBCD code. If transmission is in ASCII, the CU translates the EBCD code to ASCII before transmission.

• For example, to use this table to determine the hex code transmitted for an attribute character, first determine the values of bits 2-7. Select

Bits 2-7	EBCDIC Hex	ASCII Hex	Graphic EBCDIC/ASCII
10 0000	60	2D	-
10 0001	61	2F	/
10 0010	E2	53	S
10 0011	E3	54	T
10 0100	E4	55	U
10 0101	E5	56	V
10 0110	E6	57	W
10 0111	E7	58	X
10 1000	E8	59	Y
10 1001	E9	5A	Z
10 1010	6A ^[3]	7C	|
10 1011	6B	2C	,
10 1100	6C	25	%
10 1101	6D	5F	_
10 1110	6E	3E	>
10 1111	6F	3F	?
11 0000	F0	30	0
11 0001	F1	31	1
11 0010	F2	32	2
11 0011	F3	33	3
11 0100	F4	34	4
11 0101	F5	35	5
11 0110	F6	36	6
11 0111	F7	37	7
11 1000	F8	38	8
11 1001	F9	39	9
11 1010	7A	3A	:
11 1011	7B	23	#
11 1100	7C	40	@
11 1101	7D	27	,
11 1110	7E	3D	=
11 1111	7F	22	"

this bit configuration in the table under "Bits 2-7". The hex code that will be transmitted (either in EBCDIC or ASCII) is to the right of the bit configuration.

- Use this table also to determine equivalent EBCD and ASCII hex codes and their associated graphic characters.

2. See page 8, note 5.

3. The character is not displayed and is printed by the 3287 and 3288 only.

EBCDIC I/O INTERFACE CODE FOR 3271, 3272, AND 3275 UNITS AND ATTACHED 3277, 3284, 3286, 3287, AND 3288 TERMINALS

		00				01			
		00	01	10	11	00	01	10	11
		0	1	2	3	4	5	6	7
0000	0	NUL	Note 7			SP	&		
0001	1	SOH	SBA						
0010	2	STX	EUA		SYN				
0011	3	ETX	IIC						
0100	4								
0101	5	PT	NL						
0110	6			ETB					
0111	7			ESC	EOT				
1000	8								
1001	9		EM						
1010	A					¢	!	‘	:
1011	B					.	\$,	#
1100	C	FF	DUP		RA	<	•	%	@
1101	D		SF	ENQ	NAK	()	_	'
1110	E			FM		+	;	>	=
1111	F			ITB	SUB	‘	”	?	”

Display
Printer

Notes:

- Character code assignments other than those shown within all outlined areas of this chart are undefined. If an undefined character code is programmed, the character that will be displayed or printed and the I/O interface code returned on a subsequent read operation are not specified. The character displayed or printed by these terminals for a given undefined character code may be different for other terminals. IBM reserves the right to change at any time the character displayed or printed and the I/O interface code returned for an undefined character code.
- Lowercase alphabetic characters (shown within the dotted outlined area) are converted to uppercase by the display station or printer and displayed or printed as uppercase characters, unless the terminal has Dual Case capability.
- When these codes are sent to a display or to a printer not under format control, the indicated graphic results.

Hex Code		Function	Graphic
EBCDIC	ASCII		
00	00	NUL	Space
0C	0C	FF	Space or <
15	0A	NL	Space or 5
19	19	EM	Space or 9
1C	1C	DUP	*
1E	1E	FM	;

4. Bit 0 is assigned and bit 1 is always a 1 for the following characters: attribute, write control (WCC), copy control (CCC), CU and device address, buffer address, sense, and status. Bit 0 is assigned so that each character can be represented by a graphic character within the solid outlined areas of the chart.
 5. The FF control character (hex 0C) is returned to the host during a subsequent read operation as 8C (hex).
 6. The | character (hex 6A) is not displayed and is printed by the 3287 and 3288 only.
 7. This function (DLE) is determined by the character following.

Hex Code		Function
EBCDIC	ASCII	
1061	1031	ACK1
106B	103B	WACK
1070	1030	ACK0
107C	103C	RVI

**ASCII I/O INTERFACE CODE FOR 3271, 3272, AND 3275
UNITS AND ATTACHED 3277, 3284, 3286, 3287, AND
3288 TERMINALS**

The diagram illustrates the mapping of a 4-bit binary input (b₄ to b₁) to a 4-bit hex output (Hex 0 to Hex F). The binary input bits are labeled b₄, b₃, b₂, and b₁ from left to right. The hex output is represented by a diagonal line with arrows pointing from the bottom-left to the top-right, labeled "Hex 0" at the top and "Hex F" at the bottom. Below this line, the hex values 0 through F are listed vertically.

b ₄	b ₃	b ₂	b ₁	Hex 0
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	0	0	0	8
1	0	0	1	9
1	0	1	0	A
1	0	1	1	B
1	1	0	0	C
1	1	0	1	D
1	1	1	0	E
1	1	1	1	F

0	0	0	0	1	1	1	1	1
0	0	1	0	1	0	1	0	1
0	1	2	3	4	5	6	7	
NUL	Note 7	SP	0	@	P		p	
SOH	SBA	!!	1	A	Q	a	q	
STX	EUA	"	2	B	R	b	r	
ETX	IC	#	3	C	S	c	s	
EOT	RA	\$	4	D	T	d	t	
ENQ	NAK	%	5	E	U	e	u	
	SYN	&	6	F	V	f	v	
	ETB	'	7	G	W	g	w	
		(	8	H	X	h	x	
PT	EM	)	9	I	Y	i	y	
NL	SUB	.	:	J	Z	j	z	
	ESC	+	;	K	[	k		
FF	DUP	,	<	L	\	l		
	SF	-	=	M	]	m		
	FM	.	>	N	^	n		
	ITB	/	?	O	-	o		

Display
Printer

Notes:

1. Character code assignments other than those shown within all outlined areas of this chart are undefined. If an undefined character code is programmed, the character that will be displayed or printed and the I/O interface code returned on a subsequent read operation are not specified. The character displayed or printed by these terminals for a given undefined character code may be different for other terminals. IBM reserves the right to change at any time the character displayed or printed and the I/O interface code returned for an undefined character code.
2. Lowercase alphabetic characters (shown within the dotted outlined area) are converted to uppercase by the display station or printer and displayed or printed as uppercase characters, unless the terminal has Dual Case capability.
3. When these codes are sent to a display or to a printer not under format control, the indicated graphic results.

Hex Code		Function	Graphic
EBCDIC	ASCII		
00	00	NUL	Space
0C	0C	FF	Space or <
15	0A	NL	Space or 5
19	19	EM	Space or 9
1C	1C	DUP	*
1E	1E	FM	;

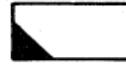
4. Attribute, write control (WCC), copy control (CCC), CU and device address, buffer address, sense, and status characters are assigned so that each character can be represented by a graphic character within the solid outlined portion of this chart.
5. ASCII A option displays and prints | and \ for interface codes 21 and 5E (hex), respectively. ASCII B option displays and prints | and ^ for codes 21 and 5E (hex) respectively.
6. The FF control character (hex 0C) is returned to the host during a subsequent read operation as 46 (hex).
7. This function (DLE) is determined by the character following.

Hex Code		Function
EBCDIC	ASCII	
1061	1031	ACK1
106B	103B	WACK
1070	1030	ACK0
107C	103C	RVI

EBCDIC I/O INTERFACE CODE FOR THE 3274 CONTROL UNIT AND ATTACHED 3277, 3284, 3286, 3287, AND 3288 TERMINALS

		00				01			
		00	01	10	11	00	01	10	11
		0	1	2	3	4	5	6	7
Hex 1									
Bits 4567									
0000	0	NUL	Note 3			SP	&	-	
0001	1	SOH	SBA				/		
0010	2	STX	EUA			SYN			
0011	3	ETX	IC						
0100	4	VCS	ENP	INP					
0101	5	PT	NL		LF	TRN			
0110	6	HT	BS	ETB					
0111	7			ESC	EOT				
1000	8								
1001	9		EM						
1010	A					¢	!	‘	’
1011	B	VT		^Ots		.	\$,	#
1100	C	FF	DUP		RA	<	*	%	@
1101	D	CR	SF	ENQ	NAK	()	-	‘	’
1110	E		FM			+	;	>	=
1111	F		IRS						
		ITB	BEL	SUB	|	~	?	”	

Display
Printer

 = Stored as a 'lowercase' symbol. Displayed on Mono Case display only. Blank on Dual Case Display. Cannot be entered from keyboard.

Notes:

- Character code assignments other than those shown within all outlined areas of this chart are defined. If an undefined character code is programmed, the character that will be displayed or printed and the I/O interface code returned on a subsequent read operation are not specified. The character displayed or printed by these terminals for a given undefined character code may be different for other terminals. IBM reserves the right to change at any time the character displayed or printed and the I/O interface code returned for an undefined character code.
- When these codes are sent to a display or to a printer not under format control, the indicated graphic results (except the DUP and FM print as *). All other control characters are displayed as hyphens.

- 3. This function (DLE) is determined by the character following.
 - 4. This function is determined by the character following. _____

Hex Code		Function	Graphic
EBCDIC	ASCII		
00	00	NUL	Space
0C	0C	FF	Space or <
0D	0D	CR	> Mono Case Space Dual Case
15	0A 14	NL	Space or 5
19	19	EM	Space or 9
1C	1C	DUP	• Mono Case • Dual Case
1E	1E	FM	; Mono Case ; Dual Case
1061	1031	ACK1	
106B	103B	WACK	
1070	1030	ACK0	
107C	103C	RVI	
2BC1	-	SHF	
2BC2	-	SVF	
2BC6	-	SLD	

5. The characters at locations 6A and E0 (hex) are not displayed and are printed by the 3287 and 3288 in mono case mode only. They print as a space in dual case mode.

EBCDIC I/O INTERFACE CODE FOR 3274 AND 3276 UNITS AND ATTACHED 3278, 3287, AND 3289 TERMINALS

Bits 4567	Hex 1	00				01			
		00	01	10	11	00	01	10	11
		0	1	2	3	4	5	6	7
0000	0	NUL	Note 3			SP	&	-	
0001	1	SOH	SBA					/	
0010	2	STX	EUA		SYN				
0011	3	ETX	IC						
0100	4	VCS	ENP	INP					
0101	5	PT	NL	LF	TRN				
0110	6	HT	BS	ETB					
0111	7		ESC	EOT					
1000	8								
1001	9		EM						
1010	A				t	!	:	:	
1011	B	VT	Note 4		.	\$,	#	
1100	C	FF	DUP	RA	<	*	%	@	
1101	D	CR	SF	ENQ NAK	()	-	'		
1110	E		FM IRS		+	;	>	=	
1111	F		ITB BEL SUB	I	~	?	"		

Display
Printer

Notes:

- Character code assignments other than those shown within all outlined areas of this chart are undefined. If an undefined character code is programmed, the character that will be displayed or printed is a hyphen (-); hex code 60 will be returned on a subsequent read operation. IBM reserves the right to change at any time the character displayed or printed and the I/O interface code returned for an undefined character code.
- When these codes are sent to a display or to a printer not under format control, the indicated graphic results (except the DUP and FM print as *). All other control characters are displayed as hyphens.
- This function (DLE) is determined by the character following →
- This function is determined by the character following →

Hex Code		Function	Graphic
EBCDIC	ASCII		
00	00	NUL	Space
0C	0C	FF	Space or <
0D	0D	CR	> Mono Case Space Dual Case
15	0A 14	NL	Space or 5
19	19	EM	Space or 9
1C	1C	DUP	• Mono Case ◦ Dual Case
1E	1E	FM	; Mono Case ; Dual Case
1061	1031	ACK1	
106B	103B	WACK	
1070	1030	ACK0	
107C	103C	RVI	
2BC1	-	SHF	
2BC2	-	SVF	
2BC6	-	SLD	

ASCII I/O INTERFACE CODE FOR 3274 AND 3276 UNITS AND ATTACHED 3278, 3287, AND 3289 TERMINALS

Bits 4321	Hex 1	000	001	010	011	100	101	110	111	Bits 7, 6, 5
		0	1	2	3	4	5	6	7	Hex 0
0000	0	NUL	Note 4	SP	0	@	P		P	
0001	1	SOH	SBA / ENP	I	1	A	Q	a	q	
0010	2	STX	EUA / INP	"	2	B	R	b	r	
0011	3	ETX	IC / VCS	#	3	C	S	c	s	
0100	4	EOT	RA / NL	\$	4	D	T	d	t	
0101	5	ENQ	NAK	%	5	E	U	e	u	
0110	6		SYN	&	6	F	V	f	v	
0111	7	BEL	ETB	'	7	G	W	g	w	
1000	8		BS	(	8	H	X	h	x	
1001	9	PT / HT	EM	)	9	I	Y	i	y	
1010	A	NL / LF	SUB	*	:	J	Z	j	z	
1011	B		VT	ESC	+	K	[	k	{	
1100	C	FF	DUP	'	<	L	\	l	l	
1101	D	CR	SF	-	=	M	]'	m	}	
1110	E		FM	.	>	N	^	n	~	
1111	F		ITB	/	?	O	-	o		

Display
Printer

Notes:

- Character code assignments other than those shown within all outlined areas of this chart are undefined. If an undefined character code is programmed, the character that will be displayed or printed is a hyphen (-); hex code 2D will be returned on a subsequent read operation. IBM reserves the right to change at any time the character displayed or printed and the I/O interface code returned for an undefined character code.
- Lowercase alphabetic characters (shown within the dotted outlined area) are converted to uppercase by the display station or printer and displayed or printed as uppercase characters, unless the terminal has Dual Case capability.
- When these codes are sent to a display or to a printer not under format control, the indicated graphic results (except the DUP and FM print as *). All other control characters are displayed as hyphens. →
- This function (DLE) is determined by the character following. →

Hex Code	Function	Graphic
EBCDIC	ASCII	
00	00	NUL
0C	0C	Space or <
0D	0D	CR > Mono Case Space Dual Case
15	0A 14	NL Space or 5
19	19	EM Space or 9
1C	1C	DUP - Mono Case - Dual Case
1E	1E	FM ; Mono Case ; Dual Case
1061	1031	ACK1
106B	103B	WACK
1070	1030	ACK0
107C	103C	RV1

BUFFER CONTROL ORDERS AND ORDER CODES

Order Sequence Order \	Byte 1 (Order Code)		Byte 2	Byte 3	Byte 4
	EBCDIC (Hex)	ASCII (Hex)			
Start Field (SF)	1D	1D	Attribute Character		
Set Buffer Address (SBA)	11	11	1st Address Byte 1	2nd Address Byte 1	
Insert Cursor (IC)	13	13			
Program Tab (PT)	05	09			
Repeat to Address (RA)	3C	14	1st Address Byte 1	2nd Address Byte 1	Character to Be Repeated
Erase Unprotected to Address (EUA)	12	12	1st Address Byte 1	2nd Address Byte 1	

Note:

1. To be a valid address:
 - a. if the Erase/Write Alternate command is not used, the maximum address is 479 for 3276, 3277, and 3278 Model 1 displays or 1919 for 3277 Model 2, 3278 Models 2, 3, and 4, or 3276 Models 2, 3, 4, 11, 12, 13, and 14.
 - b. if the Erase/Write Alternate command is used, the alternate buffer size is specified by the model or bind parameter (959, 1919, 2559, or 3439).

ATTRIBUTE CHARACTER BIT DEFINITIONS

X	1	U/P	A/N	D/SPD	Reserved	MDT	
0	1	2	3	4	5	6	7
EBCD Bit	Field Description						
0	Value determined by contents of bits 2-7.						
1	Always a 1.						
2	0 = Unprotected 1 = Protected						
3	0 = Alphabetic 1 = Numeric (causes automatic upshift of data entry keyboard)						
	<i>Note:</i> Bits 2 and 3 equal to 11 causes an automatic skip.						
4&5	00 = Display/not selector-pen detectable. 01 = Display/selector-pen detectable. 10 = Intensified display/selector-pen detectable. 11 = Nondisplay, nonprint, nondetectable.						
6	Reserved. Must always be 0.						
7	Modified Data Tag (MDT); identifies modified fields during Read Modified command operations. 0 = Field has not been modified. 1 = Field has been modified by the operator. Can also be set by program in data stream.						

Note: Bits 0 and 1 are not decoded when received by the 3270. When transferring characters to the CPU, bit 1 is a 1 and bit 0 is set, depending upon the character being transferred. All attribute characters are part of the defined character set. The default option (bits 2 through 7 all set to 0) results in an unprotected, alphabetic, displayed, nondetectable field.

ATTRIBUTE CHARACTER SUMMARY

ATTRIBUTE							Bits 23 4567	Hex Code	
Prot	A/N	High Intens	Sel Pen Det	Non Disp PRT	MOT ON	EBCD		ASCII	
U					Y	00 0000	40	20	
U				Y		00 0001	C1	41	
U				Y		00 0100	C4	44	
U				Y		00 0101	C5	45	
U		H	Y		Y	00 1000	C8	48	
U		H	Y		Y	00 1001	C9	49	
U		-	-	Y		00 1100	4C	3C	
U		-	-	Y	Y	00 1101	4D	28	
U	N				Y	01 0000	50	26	
U	N				Y	01 0001	D1	4A	
U	N			Y		01 0100	D4	4D	
U	N		Y		Y	01 0101	D5	4E	
U	N	H	Y		Y	01 1000	D8	51	
U	N	H	Y		Y	01 1001	D9	52	
U	N	-	-	Y		01 1100	5C	2A	
U	N	-	-	Y	Y	01 1101	5D	29	
P					Y	10 0000	60	20	
P					Y	10 0001	61	2F	
P				Y		10 0100	E4	55	
P			Y		Y	10 0101	E5	56	
P		H	Y		Y	10 1000	E8	59	
P		H	Y		Y	10 1001	E9	5A	
P		-	-	Y		10 1100	6C	25	
P		-	-	Y	Y	10 1101	6D	2F	
P	S				Y	11 0000	F0	30	
P	S				Y	11 0001	F1	31	
P	S			Y		11 0100	F4	34	
P	S		Y		Y	11 0101	F5	35	
P	S	H	Y		Y	11 1000	F8	38	
P	S	H	Y		Y	11 1001	F9	39	
P	S	-	-	Y		11 1100	7C	40	
P	S	-	-	Y	Y	11 1101	7D	27	

H = High P = Protected U = Unprotected
 N = Numeric S = Automatic skip Y = Yes

ATTENTION IDENTIFICATION (AID) VALUES

FOR READ MODIFIED OPERATION

AID	Hex Character (EBCDIC)	Hex Character (ASCII)	Graphic Character	Read Modified Command Operation	Resultant Transfer to CPU
No AID generated (Display or Display Station)	60	2D	-	Rd Mod (Unsolicited Read or Read Modified from Host)	If performing a remote polling operation, no read operation occurs; otherwise, field addresses and text in the modified fields are transferred.
No AID generated (Printer)	E8	59	Y	Rd Mod	
ENTER key and & (Selector Pen Attention)	7D	27	'	Rd Mod	
PF 1 key	F1	31	1	Rd Mod	
PF 2 key	F2	32	2	Rd Mod	
PF 3 key	F3	33	3	Rd Mod	
PF 4 key	F4	34	4	Rd Mod	
PF 5 key	F5	35	5	Rd Mod	
PF 6 key	F6	36	6	Rd Mod	
PF 7 key	F7	37	7	Rd Mod	
PF 8 key	F8	38	8	Rd Mod	
PF 9 key	F9	39	9	Rd Mod	
PF 10 key	7A	3A	:	Rd Mod	
PF 11 key	7B	23	#	Rd Mod	
PF 12 key	7C	40	@	Rd Mod	
PF 13 key	C1	41	A	Rd Mod	
PF 14 key	C2	42	B	Rd Mod	
PF 15 key	C3	43	C	Rd Mod	
PF 16 key	C4	44	D	Rd Mod	
PF 17 key	C5	45	E	Rd Mod	
PF 18 key	C6	46	F	Rd Mod	
PF 19 key	C7	47	G	Rd Mod	
PF 20 key	C8	48	H	Rd Mod	
PF 21 key	C9	49	I	Rd Mod	
PF 22 key	4A	5B	&	Rd Mod	
PF 23 key	4B	2E	-	Rd Mod	
PF 24 key	4C	3C	<	Rd Mod	
Card Reader	E6	57	W	Rd Mod	
Selector Pen Attention space null	7E	3D	=	Rd Mod	AID code, cursor address, and field addresses only; no data.

FOR SHORT READ OPERATION

PA 1 key	6C	25	%	Short Rd	
PA 2 (CN CL) key	6E	3E	>	Short Rd	AID code only.
PA 3 key	6B	2C	'	Short Rd	
CLEAR key	6D	5F	-	Short Rd	

FOR TEST REQUEST READ OPERATION

TEST REQ and SYS REQ keys	F0	30	0	Test Req Rd	A test request message. AID transferred on Read Buffer only.
---------------------------	----	----	---	-------------	--

REMOTE CONTROL UNIT & DEVICE ADDRESSING
FOR BINARY SYNCHRONOUS ATTACHMENT

Device or Control Unit No.	Addresses for: DEVICE SELECTION CU POLL FIXED RETURN			Addresses for: CU SELECTION TEST REQUEST		
	Char.	EBCDIC Hex	ASCII Hex	Char.	EBCDIC Hex	ASCII Hex
	0	SP ^[1]	40	20	-	60	2D
1	A	C1	41	/	61	2F
2	B	C2	42	S	E2	53
3	C	C3	43	T	E3	54
4	D	C4	44	U	E4	55
5	E	C5	45	V	E5	56
6	F	C6	46	W	E6	57
7	G	C7	47	X	E7	58
8	H	C8	48	Y	E8	59
9	I	C9	49	Z	E9	5A
10	{	4A	5B	-	6A	7C
11	.	4B	2E	,	6B	2C
12	<	4C	3C	%	6C	25
13	(	4D	28	_	6D	5F
14	+	4E	2B	>	6E	3E
15	{ or !	4F	21	?	6F	3F
16	&	50	26	0	F0	30
17	J	D1	4A	1	F1	31
18	K	D2	4B	2	F2	32
19	L	D3	4C	3	F3	33
20	M	D4	4D	4	F4	34
21	N	D5	4E	5	F5	35
22	O	D6	4F	6	F6	36
23	P	D7	50	7	F7	37
24	Q	D8	51	8	F8	38
25	R	D9	52	9	F9	39
26	!	5A	5D	:	7A	3A
27	\$	5B	24	#	7B	23
28	*	5C	2A	@	7C	40
29	)	5D	29	'	7D	27
30	;	5E	3B	=	7E	3D
31	¬ or ^	5F	5E	" [2]	7F	22

1. Device address for a 3275.
2. Device address for a General Poll operation.

DEVICE ADDRESSING for 3272/3274 Model 1B

Sixteen or Fewer Devices per Control Unit

Control Unit No.	8-bit Local Address Byte		Device No.	4 5 6 7 (XXXX)
	Control Unit	Device		
	0 1 2 3	4 5 6 7		
0	0 0 0 0	X X X X	0	0 0 0 0
1	0 0 0 1	X X X X	1	0 0 0 1
2	0 0 1 0	X X X X	2	0 0 1 0
3	0 0 1 1	X X X X	3	0 0 1 1
4	0 1 0 0	X X X X	4	0 1 0 0
5	0 1 0 1	X X X X	5	0 1 0 1
6	0 1 1 0	X X X X	6	0 1 1 0
7	0 1 1 1	X X X X	7	0 1 1 1
8	1 0 0 0	X X X X	8	1 0 0 0
9	1 0 0 1	X X X X	9	1 0 0 1
10	1 0 1 0	X X X X	10	1 0 1 0
11	1 0 1 1	X X X X	11	1 0 1 1
12	1 1 0 0	X X X X	12	1 1 0 0
13	1 1 0 1	X X X X	13	1 1 0 1
14	1 1 1 0	X X X X	14	1 1 1 0
15	1 1 1 1	X X X X	15	1 1 1 1

DEVICE ADDRESSING for 3272/3274 Model 1 B

Seventeen or More Devices per Control Unit

Control Unit No.	8-bit Local Address Byte		Device No.	3 4 5 6 7 (XXXXX)	Device No.	3 4 5 6 7 (XXXXX)
	Control Unit	Device				
	0 1 2	3 4 5 6 7				
0	0 0 0	X X X X X	0	0 0 0 0 0	16	1 0 0 0 0
2	0 0 1	X X X X X	1	0 0 0 0 1	17	1 0 0 0 1
4	0 1 0	X X X X X	2	0 0 0 1 0	18	1 0 0 1 0
6	0 1 1	X X X X X	3	0 0 0 1 1	19	1 0 0 1 1
8	1 0 0	X X X X X	4	0 0 1 0 0	20	1 0 1 0 0
10	1 0 1	X X X X X	5	0 0 1 0 1	21	1 0 1 0 1
12	1 1 0	X X X X X	6	0 0 1 1 0	22	1 0 1 1 0
14	1 1 1	X X X X X	7	0 0 1 1 1	23	1 0 1 1 1
			8	0 1 0 0 0	24	1 1 0 0 0
			9	0 1 0 0 1	25	1 1 0 0 1
			10	0 1 0 1 0	26	1 1 0 1 0
			11	0 1 0 1 1	27	1 1 0 1 1
			12	0 1 1 0 0	28	1 1 1 0 0
			13	0 1 1 0 1	29	1 1 1 0 1
			14	0 1 1 1 0	30	1 1 1 1 0
			15	0 1 1 1 1	31	1 1 1 1 1

Note: Control Unit Nos. 1, 3, 5, 7, 9, 11, 13, and 15 cannot be assigned when attached devices are assigned Device No. 16 or greater.

**DEVICE ADDRESSING for 3271 Control
Unit, Models 11 and 12**

Device Number	TH Address Field Bits: 1 2 3 4 5 6 7
0	1 0 0 0 0 0 0
1	1 0 0 0 0 0 1
2	1 0 0 0 0 1 0
3	1 0 0 0 0 1 1
4	1 0 0 0 1 0 0
5	1 0 0 0 1 0 1
6	1 0 0 0 1 1 0
7	1 0 0 0 1 1 1
8	1 0 0 1 0 0 0
9	1 0 0 1 0 0 1
10	1 0 0 1 0 1 0
11	1 0 0 1 0 1 1
12	1 0 0 1 1 0 0
13	1 0 0 1 1 0 1
14	1 0 0 1 1 1 0
15	1 0 0 1 1 1 1
16	1 0 1 0 0 0 0
17	1 0 1 0 0 0 1
18	1 0 1 0 0 1 0
19	1 0 1 0 0 1 1
20	1 0 1 0 1 0 0
21	1 0 1 0 1 0 1
22	1 0 1 0 1 1 0
23	1 0 1 0 1 1 1
24	1 0 1 1 0 0 0
25	1 0 1 1 0 0 1
26	1 0 1 1 0 1 0
27	1 0 1 1 0 1 1
28	1 0 1 1 1 0 0
29	1 0 1 1 1 0 1
30	1 0 1 1 1 1 0
31	1 0 1 1 1 1 1

WRITE CONTROL CHARACTER (WCC)

X	1	Printout Format	Start Print	Sound Alarm	Kbd Restore	Reset MDT Bits
0	1	2	3	4	5	6

Bit	Explanation
0	Determined by the contents of bits 2-7.
1	Reserved.
2,3	Define the printout format, as follows: = 00 — The NL, EM, and CR* orders in the data stream determine print line length. Provides a 132-print position line when the orders are not present. = 01 — Specifies 40-character print line. = 10 — Specifies 64-character print line. = 11 — Specifies 80-character print line.
4	Start Printer bit. When set to 1, initiates a printout operation at completion of the write operation.
5	The Sound Alarm bit. When set to 1, sounds the audible alarm at the selected device at the end of the operation if that device has an audible alarm.
6	The Keyboard Restore bit. When set to 1, restores operation of the keyboard by resetting the INPUT INHIBITED indicator on 3275 and 3277 displays, and the System Lock or Wait symbol on 3276 and 3278 displays. It also resets the AID byte at the termination of the I/O command.
7	Reset MDT bits. When set to 1, all MDT bits in the selected devices' existing buffer data are reset before any data is written or orders are executed.

*The CR order is applicable to the 3287 and 3289 Printers only.

LOCAL AND REMOTE COMMAND CODES

COMMAND	3272 3274-1B	3271 3274	3275 3276	
	EBCDIC Hex	EBCDIC Hex	ASCII Hex	Graphic
Copy ¹	N/A	F7	37	7
Erase All Unprotected	0F	6F	3F	?
Erase/Write	05	F5	35	5
Erase/Write Alternate ²	0D	7E	3D	=
Read Buffer	02	F2	32	2
Read Modified	06	F6	36	6
Read Modified All ³	N/A	6E	3E	:
Write	01	F1	31	1
No Operation	03	N/A	N/A	N/A
Select	0B	N/A	N/A	N/A
Sense	04	N/A	N/A	N/A

Notes:

1. Applicable to 3271, 3274-1C (BSC), and 3276-1/4 only.
2. Applicable to 3274 and 3276 only.
3. Applicable to 3274-1A, 3274-1C (SNA/SDLC), and 3276-11/14 only.

COPY CONTROL CHARACTER (CCC)

*	1	Printout Format	Start Print	Sound Alarm	Type of Data to be Copied		
0	1	2	3	4	5	6	7

* Determined by the configuration of bits 2-7.

(The CCC is not used by the 3272, 3275, or SNA 3274/3276).

Bit	Explanation
0	Determined by the contents of bits 2-7.
1	Reserved.
2,3	Define the printout format as follows: = 00 — The NL, EM, and CR* orders in the data stream determine print line length. Provides a 132-print position line when the orders are not present. = 01 — Specifies a 40-character print line. = 10 — Specifies a 64-character print line. = 11 — Specifies an 80-character print line.
4	The Start Printer bit. When set to 1, initiates a print-out operation at the "to" device after buffer transfers are completed.
5	The Sound Alarm bit. When set to 1, sounds the audible alarm at the "to" device after buffer transfers are completed if that device has an audible alarm.
6,7	Define the type of data to be copied as follows: = 00 — Only attribute characters are copied. = 01 — Attribute characters and unprotected alphabetic fields (including nulls) are copied. Nulls are transferred for the alphabetic characters not copied from the protected fields. = 10 — All attribute characters and protected alphabetic fields (including nulls) are copied. Nulls are transferred for the alphabetic characters not copied from the unprotected fields. = 11 — The entire contents of the storage buffer (including nulls) are copied.

*The CR order is applicable to the 3287 (3274/3276 Attachment) and 3289 Printers only.

PRINTER CONTROL ORDERS FOR 3270 DATA STREAM

ORDER	EBCDIC	ASCII
New Line (NL)	hex 15	hex OA
End of Message (EM)	hex 19	hex 19
FORMS FEED ^(1,2) , (FF)	hex OC	hex OC
SUPPRESS INDEX ⁽³⁾ , (SI)	hex BF	
CARRIAGE RETURN ⁽⁴⁾ , (CR)	hex OD	

1. Inserted either as the first character after the WCC in a WRITE, ERASE/WRITE, or ERASE WRITE ALTERNATE command stream, after a valid NL order, or after the last printable character position of any line for 3287, 3288, and 3289 Printers.
2. If a 3288 buffer is read back by the program, the FF characters are returned to the program as 8C (EBCDIC) or 46 (ASCII).
3. Honored only by the 3288 Printer equipped with the Text Print special feature.
4. Valid only in a data stream written to a 3287 with 3274/3276 Attachment and 3289 Printers.

SNA CHARACTER STRING (SCS) CONTROL CODES

Code	EBCDIC (hex)	Name
BS	16	Back Space
BEL	2F	Bell Function
CR	0D	Carriage Return
ENP	14	Enable Presentation
FF	0C	Forms Feed
HT	05	Horizontal Tab
INP	24	Inhibit Presentation
IRS	1E	Interchange-Record Separator
LF	25	Line Feed
NL	15	New Line
SHF	2BC1	Set Horizontal Format
SLD	2BC6	Set Line Density
SVF	2BC2	Set Vertical Format
TRN	35	Transparent
VCS	04	Vertical Channel Select
VT	0B	Vertical Tab

Note:

SCS control codes are honored by the 3287 and 3289 Printers when operating as LU type 1 attached to the 3274 or 3276.

BIND COMMAND SESSION PARAMETERS FOR THE 3274/3276

<u>Byte</u>	<u>Hex Value</u>	<u>Bit Setting</u>	<u>Meaning</u>
0	31		Identifies this RU as a Bind command.
1	01		Bind type and format. The only Bind type supported is Hex 01.
2	03		Function management (FM) profile. Specifies that the data flow control commands and the request/response protocols that are to be used for this session conform to FM Profile 3.
3	03		Transmission services (TS) profile. Specifies that the 3274 or 3276 conforms to TS Profile 3, that is, pacing and sequence numbers are used with normal flow transmission and that data traffic is controlled by the Clear and Start Data Traffic commands.
4			Primary LU Protocols.
	X		Chaining use:
		0	The PLU can send only single-element chains.
		1	The PLU can send single- or multiple-element chains.
	. X		Request mode selection:
		0	Immediate request mode is used. Only one definite response can be outstanding at a time. That response must be received before the PLU can send another RU.
	.. XX		Chaining responses:
		01	The PLU can only request exception-only responses.
		10	The PLU can only request definite responses.
		11	The PLU can request definite or exception-only responses.
	. . . . 00 . .		Reserved.

BIND COMMAND SESSION PARAMETERS FOR THE 3274/3276 (cont'd)

<u>Byte</u>	<u>Hex Value</u>	<u>Bit Setting</u>	<u>Meaning</u>
		.....X.	Compression indicator: 0 The PLU cannot send compressed data.
		.....X	Send End Bracket Indicator (EB): 1 The PLU can send the EB.
5			Secondary LU Protocols.
	X		Chaining Use: 1 The 3274 or 3276 can send single- or multiple-element chains.
	.X		Request mode selection: 0 Immediate request mode is used. The 3274 or 3276 can issue a request for a single definite response. No further transmissions are sent until the 3274 or 3276 receives the requested response.
	.. XX		Chaining responses: 01 The 3274 or 3276 can only request exception-only responses. 10 The 3274 or 3276 can only request definite responses. 11 The 3274 or 3276 can request either definite or exception-only responses. If both are allowed, the 3274 or 3276 will request exception-only responses.
	.... 00 ..		Reserved.
	.... .X .		Compression indicator: 0 The 3274 or 3276 cannot send compressed data.
	.... .X		Send End Bracket indicator (EB): 0 The 3274 or 3276 cannot send the EB.
6			Common Protocols.
	0		Reserved.

BIND COMMAND SESSION PARAMETERS FOR THE 3274/3276 (cont'd)

<u>Byte</u>	<u>Hex Value</u>	<u>Bit Setting</u>	<u>Meaning</u>
	. X		Function management (FM) header usage: 0 The PLU and the 3274 or 3276 cannot exchange FM headers.
	. . X		Brackets usage: 1 Bracketed session is used. Both the PLU and the 3274 or 3276 must use bracket protocols.
	. . . X		Bracket termination protocol: 1 Bracket termination rule 1 is used (refer to "Bracket Protocol" for a description of bracket termination rule 1).
	. . . . X		Alternate Code selection: 0 Both the PLU and the 3274 or 3276 must use EBCDIC. 1 Both the host program and the 3274 or 3276 can use an alternate code. An example of an alternate code is ASCII.
	. . . . . 000		Reserved.
7			Common Protocols.
	XX		Normal Flow Send/receive mode (selection): 10 This session uses half-duplex, flip-flop (HDX FF) transmissions. Refer to "Session Processing States."
	. . X		Recovery responsibility: 0 The PLU is responsible for error recovery.
	. . . X		Brackets first speaker: 0 The 3274 or 3276 is always the first speaker.
	. . . . . 000 .		Reserved.

BIND COMMAND SESSION PARAMETERS FOR THE 3274/3276 (cont'd)

<u>Byte</u>	<u>Hex Value</u>	<u>Bit Setting</u>	<u>Meaning</u>
		..... X	Contention resolution: 0 Contention (simultaneous transmissions from the host program and the 3274 or 3276) is resolved in favor of the 3274 or 3276. Presentation Services.
8	00xx xxxx		Secondary-to-primary LU pacing count. This parameter is supported by the 3276 but not by the 3274. If set to zeros, pacing is not used.
9	00xx xxxx		The primary-to-secondary pacing value defines the number of RUs that may be received by the 3274 or 3276 before a pacing response must be returned to indicate readiness for another block of RUs. If set to zeros, pacing is not used. See "Pacing" for recommendations of pacing values.
10	XX		Maximum RU size sent by the secondary LU. This value represents the largest RU that can be sent by the 3274 or 3276. It is expressed as a mantissa (8 through F) and an exponent value of 2 by which the mantissa is multiplied. For example, when the mantissa is specified as 8 and the exponent of 2 is 5 (hex 85), the RU size represented is 256 bytes. Examples of mantissa and exponent values used by the 3274 or 3276 are shown below with the RU size they represent:
		85=256	86=512
		C6=768	87=1024
		A7=1280	C7=1536
		E7=1792	88=2048

BIND COMMAND SESSION PARAMETERS FOR THE 3274/3276 (cont'd)

<u>Byte</u>	<u>Hex Value</u>	<u>Bit Setting</u>	<u>Meaning</u>
11	XX		Maximum RU size sent by the primary LU. This value represents the largest RU that can be sent by the PLU and is specified in the same format as for the secondary LU (byte 10). See "RU Lengths Supported" for detailed information about values supported by 3274 and 3276.
12, 13	0000		Reserved; must be set to hexadecimal zeros.
For SLU Type 1:			
14	01		Type 1 print function using SCS data stream.
15-17	00		Reserved.
18	E1		Sent but not checked by the 3274 or 3276 for LU type 1.
19	00		Reserved.
20-24			Not supported for LU type 1.
For SLU Types 2 and 3:			
14	02		Type 2 3270 data stream compatibility mode.
14	03		Type 3 3270 print function using 3270 data stream.
15-19	00		Reserved.
20-24	XX		Refer to Figure 3-4 for LU type 2. Refer to Figure 3-5 for LU type 3.
For all SLU Types:			
25+			Reserved.

SUMMARY OF SNA COMMANDS RECEIVED FOR SNA 3274/3276

SNA Command Received	SSCP-PU Session Active	SSCP-LU Session Active	LU-LU Session Active	LU-LU Session Processing States			
				Data Traffic Reset		In Bracket	
				On	Off	On	Off
ACTLU	R	E	T				
ACTPU	E	T	T				
DACTLU	R	T	T				
DACTPU	R,T	T	T				
BIND			E,I	X			X
UNBIND			R,T				
CANCEL			R		R		
CHASE			R		R	R	
CLEAR			R	X			X
SDT			R	R	X		
SIGNAL			R		R		
SHUTDOWN			R		R		
FM DATA			R		R	R	

Legend:

- R — Required state for this command to be valid.
- I — Command invalid if in this processing state.
- E — Command establishes this session.
- T — Command terminates this session.
- X — Command sets the processing state to the indicated status.

SUMMARY OF SNA COMMANDS SENT FOR SNA 3274/3276

SNA Command Sent	SSCP-PU Session Active	SSCP-LU Session Active	LU-LU Session Active	LU-LU Session Processing States			
				Data Traffic Reset		In Bracket	
				On	Off	On	Off
LUSTAT			R		R		
SIGNAL			R		R		
CANCEL			R		R	R	
READY TO REC.			R		R		R
SHUT- DOWN COMPLETE			R		R		R
FM DATA			R		R	R	

Legend:

R — Required state for this command to be valid.

BRACKET STATE ERRORS FOR SNA 3274 AND 3276

State \ Command	CHASE &EB	CHASE &TEB	BID	CANCEL &EB	CANCEL &TEB	FMD &BB	FMD &TBB
BETB	2003	—	—	2003	—	—	2003
INB	—	—	0813	—	—	0813	—
PEND.BB	2003	—	—	2003	—	—	2003

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STATUS INDICATOR CODES FOR 3274

Error Code	Indicator	Probable Cause
202 (Type A Term.)	— Mach Chk	Internal terminal error.
203 (Feature)	— Mach Chk	Terminal feature circuitry failure.
204 (Type A Term.)	— Mach Chk	Terminal buffer parity error.
205 (Feature)	— Mach Chk	An operation was attempted on an inoperative or unsupported terminal feature.
206 (Feature)	— Mach Chk	Feature did not initialize properly.
207 (Type A Term.)	— Mach Chk	The terminal failed to respond to the CU.
208 (Type A Term.)	— Mach Chk	Invalid terminal response to CU.
209 (Type A Adapt) (Type A Term.)	— Mach Chk	CU-to-terminal communication failure.
210 (Feature)	— Mach Chk	Keyboard type is not supported.
211 (Type A Term.)	— Mach Chk	Invalid terminal response to CU.
212 (Kybd)	— Mach Chk	An invalid keystroke code was received from this display.
222 (Feature)	— Mach Chk	Selector pen error.
224 (Feature)	— Mach Chk	Magnetic slot reader error.
231 (Prntr)	— Mach Chk	An unrecoverable printer error has occurred.
270, 271, 273 (Type B Adapt)	1010 —	An unrecoverable terminal error has occurred.
272 (Type B Adapt)	1010 —	Terminal request was not serviced by the CU.

Effect	Recovery
Affected terminal is disabled. Set sense: Non-SNA: DC/US SNA: 081C	At the affected terminal, switch the Normal/Test switch from Normal to Test and back again (or switch power off, then on).
	Press RESET key and retry the operation.
CU clears the terminal buffer and sets sense: Non-SNA: DC/US SNA: 082B If internal recovery is unsuccessful, terminal is disabled. Set sense: Non-SNA: DC/US SNA: 081C	Host recovery. If host recovery is unsuccessful, switch Normal/Test switch from Normal to Test and back again (or switch power off, then on).
Feature cannot be used; remainder of the terminal is not affected.	Press RESET key and retry the operation. (Verify that the customization procedure specified that the failing was attached to the terminal.)
All terminal features are disabled. Basic terminal functions remain operative.	Press RESET key and retry the operation.
Affected terminal is disabled. Set sense: Non-SNA: DC/US SNA: 081C	At the affected terminal, switch the Normal/Test switch from Normal to Test and back again (or switch power off, then on).
	Press RESET key and retry the operation.
Affected terminal is disabled. Set sense: Non-SNA: DC/US SNA: 081C	At the affected terminal, switch the Normal/Test switch from Normal to Test and back again (or switch power off, then on).
Unpredictable keyboard operations.	Verify that the customization procedure specified that this keyboard type was attached to the subsystem.
Keyboard is locked if affected terminal is a display.	Press RESET key and retry the operation.
Keyboard is locked.	
The affected printer is disabled. Set sense: Non-SNA: EC/IR/US SNA: 081C	See the printer Problem Determination Guide.
All Type B terminals are disabled; Type A terminals are not affected.	Re-IML; perform host recovery if required
Set sense: Non-SNA: DC/US SNA: 082B	Host recovery.

Error Code	Indicator	Probable Cause
274 (Type B Term.)	— —	A terminal busy condition does not clear.
275 (Prntr)	— —	The affected printer indicates equipment check and not ready condition.
276 (Prntr)	— —	The affected printer indicates equipment check.
277 (Type B Term.)	— —	A terminal buffer parity error has occurred.
278 (Type B Adapt) (Type B Term.)	— —	A CU-to-terminal communication problem.
279 (Type B Term.)	— —	Internal terminal error.
292, 294, 295, 296, 299 (Type A Adapt)	1000 Mach Chk	Adapter failure.
293 (Type A Adapt)	1000 Mach Chk	The CU has received input from a terminal port that is not in the configuration table.
297 (Type A Adapt)	1000 Mach Chk	Adapter failure or unisolated terminal failure.
298 (Type A Adapt)	1000 Mach Chk	Adapter failure.
310, 311 (Mdl 1C-BSC)	1001 Mach Chk	A host communication adapter failure has occurred.
320, 321, 330, 331 (Mdl 1C-SDLC)	1001 Mach Chk	
340, 341, 342 (Mdl 1A)	1001 Mach Chk	
350, 351, 352, 353, 357 (Mdl 1B)	1001 Mach Chk	
354 (Mdl 1B)	1001 Mach Chk	The number of terminals specified during customization exceeds the number specified in the adapter address jumpers.

Effect	Recovery
<p>Affected terminal is disabled. Set sense: Non-SNA: DC/US SNA: 081C</p>	<p>At the affected terminal, switch the Normal/Test switch from Normal to Test and back again (or switch power off, then on.)</p>
<p>Set sense: Non-SNA: EC/IR/US SNA: 081C</p>	<p>Operator recovery; follow locally established procedures.</p>
<p>Set sense: Non-SNA: EC/US SNA: 082B</p>	<p>Host recovery.</p>
<p>Set sense: Non-SNA: DC/US SNA: 082B If internal recovery is unsuccessful, terminal is disabled; set sense: Non-SNA: DC/US SNA: 081C</p>	<p>Host recovery. If host recovery is unsuccessful, switch Normal/Test Sw from Normal to Test and back again (or switch power off, then on).</p>
<p>Affected terminal is disabled if second attempt by CU is unsuccessful, and sense is set: Non-SNA: DC/US SNA: 081C</p>	<p>At the affected terminal, switch the Normal/Test switch from Normal to Test and back again (or switch power off, then on).</p>
<p>Affected terminal is disabled. Set sense: Non-SNA: DC/US SNA: 081C</p>	
<p>Display error indicator on all 3278s.</p>	
<p>Display error indicator on all 3278s. Disable the terminal that was communicating with the CU when the failure occurred.</p>	<p>At the affected terminal, switch the Normal/Test switch from Normal to Test and back again (or switch power off, then on). Press RESET key and retry the operation.</p>
<p>Host communication is disabled.</p>	<p>Re-IML; perform host recovery if required.</p>
	<p>Verify that the number of terminals specified during customization does not exceed the number of addresses jumpered on the adapter.</p>

Error Code	Indicator	Probable Cause
355 (Mdl 1B)	1001 Mach Chk	A host communication adapter failure has occurred.
356 (Mdl 1B)	1001 Mach Chk	
381 (Type A Adapt) (Type B Adapt) (Kybd) (Feature) (Prntr) (Disp) (SNA) (Mdl 1A) (Mdl 1B) (Mdl 1C-BSC) (Mdl 1C-SDLC) (Type A Term.) (Type B Term.)	0010 Mach Chk	CU logic error.
390 (Type A Adapt) (Type B Adapt) (Kybd) (Feature) (Prntr) (Disp) (SNA) (Mdl 1A) (Mdl 1B) (Mdl 1C-BSC) (Mdl 1C-SDLC) (Type A Term.) (Type B Term.)	0001 or 0011-0111 Mach Chk	A storage parity error has occurred.
391 (Type A Adapt) (Type B Adapt) (Kybd) (Feature) (Prntr) (Disp) (SNA) (Mdl 1A) (Mdl 1B) (Mdl 1C-BSC) (Mdl 1C-SDLC) (Type A Term.) (Type B Term.)	0010 or 1101 Mach Chk	CU logic failure.
401 (Type A Adapt) (Type B Adapt) (Kybd) (Feature) (Prntr) (Disp) (SNA) (Mdl 1A) (Mdl 1B) (Mdl 1C-BSC) (Mdl 1C-SDLC) (Type A Term.) (Type B Term.)	— Prog Chk	Invalid command received.

Effect	Recovery
Display error indicator on the selected 3278. Set sense: DC	Host recovery.
Host communication is disabled. Set sense: DC	RE-IML; perform host recovery if required.
Host communication is disabled.	
Host communication is disabled.	RE-IML; perform host recovery if required.
Display error indicator on affected 3278. Set sense: Non-SNA:CR SNA: 1003	Press RESET key to reset the program check indicator and retry the operation. Call host-support programmer if the problem persists, since it is probably a data stream error.

Error Code	Indicator	Probable Cause
402 (Type A Adapt) (Type B Adapt) (Kybd) (Feature) (Prntr) (Disp) (SNA) (Mdl 1A) (Mdl 1B) (Mdl 1C-BSC) (Mdl 1C-SDLC) (Type A Term.) (Type B Term.)	— Prog Chk	Invalid (out of range) address has been received.
403 (Type A Adapt) (Type B Adapt) (Kybd) (Feature) (Prntr) (Disp) (SNA) (Mdl 1A) (Mdl 1B) (Mdl 1C-BSC) (Mdl 1C-SDLC) (Type A Term.) (Type B Term.)	— Prog Chk	Data stream containing data following a Rd, Rd Mod, or EAU command was received.
404 (Type A Adapt) (Type B Adapt) (Kybd) (Feature) (Prntr) (Disp) (SNA) (Mdl 1A) (Mdl 1B) (Mdl 1C-BSC) (Mdl 1C-SDLC) (Type A Term.) (Type B Term.)	— Prog Chk	Data stream containing SBA, RA, EUA, or SF order with invalid parameters was received.
405 (Mdl 1C-BSC)	— Prog Chk	Invalid Copy command was received.
406 (Mdl 1C-BSC)	— Prog Chk	Invalid command sequence received.
407 (Mdl 1B)	— Prog Chk	Valid command or order received that cannot be executed because: a. SBA, RA, or EUA order specifies an invalid address, or b. Write data stream ends before all required bytes of SBA, RA, EUA, or SF order sequence are received, or c. Write, E/W, EWA with Start Print bit set in WCC is chained to the next command; the print operation is suppressed.
408 (Mdl 1C-BSC)	— Prog Chk	Line buffer overflow.

Effect	Recovery
<p>Display error indicator on affected 3278.</p> <p>Set sense:  Non-SNA:OC SNA: 1005</p>	<p>Press RESET key to reset the program check indicator and retry the operation. Call host support programmer if the problem persists, since it is probably a data stream error.</p>
<p>Display error indicator on affected 3278.</p> <p>Set sense: Non-SNA:OC SNA: 1003</p>	
<p>Display error indicator on affected 3278.</p> <p>Set sense: Non-SNA:OC SNA: 1005</p>	
<p>Display error indicator on affected 3278.</p> <p>Set sense: OC</p>	

Error Code	Indicator	Probable Cause
410 (Mdl 1A)	— Prog Chk	RU greater than 1536 bytes received.
411 (SNA)	— Prog Chk	LU1 RU received with greater length than in Bind specification.
413 (SNA)	— Prog Chk	The attempted function is not supported.
420 (SNA)	— Prog Chk	LIC carried exception response when Bind specified definite response.
421 (SNA)	— Prog Chk	LIC carried definite response when Bind specified exception response.
422 (SNA)	— Prog Chk	No Response is not allowed.
423 (SNA)	— Prog Chk	Format indicator (FI) bit is not allowed.
430 (SNA)	— Prog Chk	Sequence number error.
431 (SNA)	— Prog Chk	Chaining error.
432 (SNA)	— Prog Chk	Bracket error.
433 (SNA)	— Prog Chk	Data Traffic Reset.
434 (SNA)	— Prog Chk	Direction error.
440 (SNA)	— Prog Chk	Session Limit exceeded
441 (SNA)	— Prog Chk	Bracket Bid Reject (No RTR).
441 (SNA)	— Prog Chk	Receiver in Transmit Mode.
442 (SNA)	— Prog Chk	Request not executable.
443 (SNA)	— Prog Chk	Change Direction required.
444 (SNA)	— —	Session already Bound.

Effect	Recovery
Display error indicator on affected 3278. Set sense: 1002	Press RESET key to reset the program check indicator and retry the operation. Call host-support programmer if the problem persists, since it is probably a data stream error.
Display error indicator on affected 3278. Set sense: 1003	
Display error indicator on affected 3278. Set sense: 4006	
Display error indicator on affected 3278. Set sense: 4007	
Display error indicator on affected 3278. Set sense: 4007	
Display error indicator on affected 3278. Set sense: 400A	
Display error indicator on affected 3278. Set sense: 400F	
Display error indicator on affected 3278. Set sense: 2001	
Display error indicator on affected 3278. Set sense: 2002	
Display error indicator on affected 3278. Set sense: 2003	
Display error indicator on affected 3278. Set sense: 2005	
Display error indicator on affected 3278. Set sense: 2004	
Display error indicator on affected 3278. Set sense: 0805	
Display error indicator on affected 3278. Set sense: 0813	
Display error indicator on affected 3278. Set sense: 081B	
Display error indicator on affected 3278. Set sense: 081C	
Display error indicator on affected 3278. Set sense: 0829	
Display error indicator on affected 3278. Set sense: 0815	

Error Code	Indicator	Probable Cause
450-456 (SNA)	— Prog Chk	Bind Reject; Bind parameters do not match Bind checks: a. 450 = Profile error b. 451 = Primary protocol error c. 452 = Secondary protocol error d. 453 = Common protocol error e. 454 = Screen Size specification error f. 455 = LU profile error g. 456 = LU1 error
460 (Mdl 1A, 1B, (1C)	— Prog Chk	Error in printer authorization matrix.
498 (SNA)	— Prog Chk	Negative response received.
499 (SNA)	— Prog Chk	Exception request.
501 (Mdl 1C-BSC) (Mdl 1C-SDLC)	— Comm Chk	Data Set Ready (DSR) signal from modem has dropped.
501 (Mdl 1A) (Mdl 1B)	— Comm Chk	Manual OFFLINE switch in the OFF-LINE position.
502 (Mdl 1C-BSC) (Mdl 1C-SDLC)	— Comm Chk	Clear to Send (CTS) signal from the modem is missing.
503 (Mdl 1B)	— Comm Chk	A selective reset sequence was received.
505 (Mdl 1C-SDLC)	— Comm Chk	Initial state of CU, or a Disconnect command was received.
505 (Mdl 1A)	— Comm Chk	
505 (Mdl 1B)	— Comm Chk	System Reset was received.
510 (SNA)	— Comm Chk	The PU is not active.
511 (Mdl 1A)	— Comm Chk	Disconnect command was received when PU was active.
512 (Mdl 1A)	— Comm Chk	Connect command was received when PU was already connected.
514 (Mdl 1A)	— Comm Chk	Connect error caused by: a. Odd-number buffer length was specified, or b. Insufficient length buffer was specified.
518 (Mdl 1C-SDLC)	— Comm Chk	A segment was received with improper sequencing in the TH MPF bits.

Effect	Recovery
Display error indicator on affected 3278. Set sense: 0821	Press RESET key to reset the program check indicator and retry the operation. Call host support programmer if the problem persists, since it is probably a data stream error.
Display error indicator on 3278 affected.	
Display error indication on affected 3278.	
Display error indication on all 3278's. Host communication is inhibited.	Check modem. Press RESET key and retry the operation.
Host communication is inhibited.	Place switch in the ONLINE position.
Display error indicator on all 3278s. Host communication is inhibited.	Check modem. Press RESET key and retry the operation.
Display error indicator on affected 3278.	Press RESET key and retry the operation.
Display indicator on all 3278s.	Host recovery (a SNRM command is required. Press RESET key and retry the operation).
	Host recovery (a connect sequence is required). Press RESET key and retry the operation.
	Host recovery (the first I/O operation, other than TIO or Sense, will clear the Communication Reminder). Press RESET key and retry the operation.
	Host recovery (ACTPU is required).
	Host recovery (Connect is required).
	Host recovery (ACTPU is required).
Display indicator on all 3278s.	Host recovery (Valid Connect is required).
Display error indicator on all 3278s; all PUs and LUs are deactivated.	Host recovery (SNRM is required).

Error Code	Indicator	Probable Cause
519 (Mdl 1C-SDLC)	— Comm Chk	A message was received that is larger than the CU buffer.
520 (Mdl 1C-SDLC)	— Comm Chk	Non-Productive time-out caused by: a. A valid frame not received in the past 20-25 seconds, or b. The communication line is hung at space or a valid data character.
521 (Mdl 1C-SDLC)	— Comm Chk	No Flag characters on the line in the past 20-25 seconds.
525 (Mdl 1C-SDLC)	— Comm Chk	A connection problem exists on the communications link that prevents establishing or reestablishing host communication. (Set by receipt of 20 Write retries, 20 ROLs, 20 CRs, 20 XIDs, or 20 NSAs.)
528 (Mdl 1C-SDLC)	— Comm Chk	Command Reject caused by: a. Detection of an NR sequence error, or b. Receipt of a command that has no data field defined, or c. Receipt of an invalid command.
529 (Mdl 1C-SDLC)	— Comm Chk	Abnormal response from the modem.
530 (Mdl 1C-BSC) (Mdl 1C-SDLC)	— Comm Chk	Write timeout caused by: a. Modem clocking missing, or b. CTS has dropped.
531 (Mdl 1C-BSC)	— Comm Chk	CU has sent a NAK response because: a. A BCC error was detected, or b. Three seconds elapsed during a Read operation without receiving Syn, ETX, or ETB, or c. A forward abort (ENQ in text) was received, or d. A Temporary Text Delay sequence (STX ENQ) was received.
532 (Mdl 1C-BSC)	— Comm Chk	Approximately 20 seconds have elapsed without detecting SYN characters on the line.

Effect	Recovery
<u>CCA:</u> SDLC Command Reject response is sent to host. <u>HPCA:</u> NR/NS mismatch	Host recovery. (Check NCP Sysgen parameters if the condition persists.)
Display error indicator on all 3278's. Host communication is inhibited.	Verify the operational status of the communications network.
	Host recovery.
Display error indicator on all 3278s. Host communication is inhibited. All PUs and LUs are deactivated.	Check modem; Host recovery.
Display error indicator on all 3278s. Host communication is inhibited. In SDLC, all PUs and LUs are deactivated.	Check modem; Host recovery. (In SDLC, SNRM is required.)
Display error indicator on the affected 3278. The affected terminal buffer is restored to its state before the error occurred.	Host recovery (Host should retransmit the last transmission).
Display error indicator on all 3278s. Host communication is inhibited.	Verify the operational status of the communication network. Host recovery. (A valid Poll or Selection Addressing sequence is required.)

Error Code	Indicator	Probable Cause
533 (Mdl 1C-BSC)	— Comm Chk	The host did not receive ETX or ETB with the last block of text transmitted by the CU, and has sent ENQ to the CU.
534 (Mdl 1C-BSC)	— Comm Chk	The CU did not receive ACK to its last block sent, and has sent ENQ 15 times.
535 (Mdl 1C-BSC)	— Comm Chk	The CU received 15 consecutive NAKs to its last transmission.
536 (Mdl 1C-BSC)	— Comm Chk	The CU received 15 consecutive ACK0s instead of ACK1s, or vice versa.
540 (Mdl 1A)	— —	A Restart Reset, Read Start, Write Start, Read, Write, or Write Break command was received while the CU was not initialized.
541 (Mdl 1A)	— —	An invalid command was received.
543 (Mdl 1A)	— —	A channel parity error occurred during selection.
544 (Mdl 1A)	— —	A channel parity error occurred during a host write operation.
545 (Mdl 1A)	— —	A CU parity error occurred during a host write operation.
546 (Mdl 1A)	0001 or 0011-0111 —	A CU parity error occurred during a host read operation.
547 (Mdl 1A)	1001 —	A channel parity error occurred during a host read operation.
548 (Mdl 1A)	1001 or 1011 —	A CU error occurred during an I/O operation.
549 (Mdl 1A)	— —	The byte count specified in the hosts' Read command was insufficient to transfer all associated data from the CU buffer.
550 (Mdl 1A)	— —	The count in the link header did not equal the byte count received.
551 (Mdl 1B)	— Comm Chk	CU detected bad parity on any command or data byte received.

Notes:

1. All three-digit numbers listed in the "Error Code" column are logged.
2. The four-digit numbers listed in the "Indicator" column are displayed on 3278 displays with an associated error code symbol.

Effect	Recovery
Display error indicator on the affected 3278. The affected terminal buffer is restored to its state before the error occurred. The CU will transmit its last ACK (1/0).	Host recovery. (Host should retransmit the last transmission sent that preceded ENQ.)
Display error indicator on the affected 3278. Host communication is inhibited. The CU transmits EOT.	Host recovery. (A valid Poll or Selection Addressing is required.)
Set sense: 8200	Host recovery. (A Connect command is required.)
Set sense: 8000	Host recovery; verify host sysgen for proper device-type.
Set sense: 2002	Host recovery.
Set sense: 2006	Host recovery.
Set sense: 1002	
Set sense: 1006	
Set sense: 1002	
Set sense: 1001	
Set sense: 0800	
Set sense: 0880	
Display error indicator on affected 3278. Set sense: BOC	

3. Inhibit conditions shown in the "Indicator" column are reset by the 3278 RESET key.
4. The communication reminder indicators used with the 500 series error codes are extinguished when the communication link again becomes functional.

STATUS INDICATOR CODES FOR 3276

Error Code	Indicator	Probable Cause
10 (SDLC)	Sys Chk Light Program Chk: (X PROG 10)	Data stream and/or SNA error.
11 (SDLC)	Sys Chk Light Program Chk: (X PROG 11)	Sense RU from host.
12 (BSC)	Sys Chk Light Program Chk: (X PROG 12)	Command rejected; host programming problem in write data stream.
13 (BSC)	Sys Chk Light Program Chk: (X PROG 13)	Illegal buffer address or in complete order sequence; host programming problem in write data stream.
14 (BSC)	Sys Chk Light Program Chk: (X PROG 14)	Invalid specification of COPY command (e.g., no CCC, invalid "from" address, copy to a smaller display size, etc.)
15 (BSC)	Sys Chk Light Program Chk: (X PROG 15)	Invalid command sequence.
16 (BSC)	Sys Chk Light Program Chk: (X PROG 16)	Line buffer overflow.
20 (BSC)	Sys Chk Light Comm Chk: (X Z20)	3276 sent negative acknowledgment; Block Character Checking error or line error. No ending character received (ETX or ETB); or no SYN characters received within 3 seconds after STX.
20 (SDLC)	None	CRC failed for the message just received.
21 (BSC)	None	3276 received negative acknowledgment; line error.
21 (SDLC)	None	3276 sent previous message(s) again because confirming sequence number was not received.
22 (SDLC)	Sys Chk Light Comm. Chk: (X Z22)	No flags received for 24 to 32 seconds.
23 (BSC)	Sys Chk Light Comm Chk: (X Z23)	15 three-second timeouts occurred with no response or no valid response received for the transmitted text; 3276 component or host facility problem.

Effect	Recovery
Log error code. Display error indication at affected display station.	Valid I-frame or a SNRM received resets all error indications. Press Reset to reset Program Check symbol.
Log error code. Display error indication at affected display station.	Valid PIU to LU or SNRM received resets all error indications. Press Reset to reset Program Check symbol.
Log error code. Display error indication at affected display station. Set BSC Sense:CR. Send EOT. Go to Control mode.	Receipt of poll or selection with 3276 address resets all error indications. Press Reset to reset Program Check symbol. Call host-support programmer if problem persists.
Log error code. Display error indication at affected display station. Set BSC Sense:OC. Send EOT. Go to Control mode.	
Log error count. Display error indication at affected display station. Replace display image with image displayed before receive operation began. For no end character or no SYN, send NAK to host and replace display image with previous image.	Receipt of poll or selection with 3276 address, or of data resets all error indications. If switched network, redial; if SNBU is installed, use it; if error persists, problem is probably in communication facility.
Log error count. Ignore the message. Continue operation.	
Log error count. Continue operation.	If switched network, redial; if SNBU is installed, use it; if error persists, problem is probably in communication facility.
Log error count.	Receipt of confirming sequence number.
Log error code. Display error indication at all display stations.	Valid frame received resets all error indications.
Log error code. Display error indication at all display stations. Go to Control mode.	Receipt of poll or selection with 3276 address resets all error indications. If problem persists, press Test Subsystem: if test succeeds, call host operator; if test fails, problem is probably 3276 component.

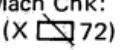
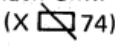
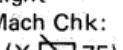
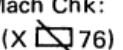
Error Code	Indicator	Probable Cause
24 (BSC)	Sys Chk Light Comm Chk: (X $\not\equiv$ 24)	No valid text received within 15 three-second timeouts after sending ACK or RVI.
25 (SDLC)	Sys Chk Light Comm Chk: (X $\not\equiv$ 25)	Something in the link is preventing establishment or re-establishment of communication; 20 Write retries or command rejects were effected.
26 (BSC)	Sys Chk Light Comm Chk: (X $\not\equiv$ 26)	Fifteen continuous ACK0s received, instead of ACK1—or vice versa (Wrong ACK - ENQ exchange).
27 (BSC)	Sys Chk Light Comm Chk: (X $\not\equiv$ 27)	Fifteen continuous NAKs received for transmitted/retransmitted text.
28 (BSC)		Time out during read.
29 (SDLC)	Sys Chk Light Comm Chk: (X $\not\equiv$ 29)	Command rejected because: NR sequence error detected; or Data received with command having no data field defined; or wrong length message; or Command invalid.
30 (SDLC)	None	Incoming message abnormally terminated by transmitting station.
33 (BSC and SDLC) External Modem	Sys Chk Light Comm Chk: (X $\not\equiv$ 33)	Set by CCA when it detects no DSR, or by momentary loss of DSR; data communications equipment (modem) problem.
34 (BSC and SDLC) External Modem	Sys Chk Light Comm Chk: (X $\not\equiv$ 34)	Invalid timeout within the modem, CCA, or EIA – detected by the CCA; for example, modem clock failure, no CS, or momentary loss of CS.
41 (Kybd)	Mach Chk: (X $\not\equiv$ 41)	Invalid keyboard code received.
42 (Kybd)	Retry: (X $\not\equiv$ +42)	Keystroke lost because of temporary system overload. Keying was attempted when device was busy or not functioning. Conflicting operations were attempted simultaneously; for example, the Clear key was pressed during selector pen operation.

Effect	Recovery
Log error code. Display error indication at affected display station.	Receipt of data, or receipt of poll or selection with 3276 address or receipt of text resets all error indications. If problem persists, press Test Subsystem: if test succeeds, call host operator; if test fails, problem is probably 3276 component.
Log error code. Display error indication at all display stations.	Receipt of expected response (SNRM or DISC), or when Write completion is posted.
Log error code. Display error indication at affected display station. Go to Control mode.	Receipt of poll or selection with 3276 address resets all error indications. If problem persists, call host operator.
Log error code. Display error indication at affected display station. Go to Control mode.	
Log error code. Display error indication at all display stations.	Receipt of valid SNRM type command from host. Press Reset.
Log error. Go to Control mode.	Receipt of valid SDLC frame.
Log error code. Display error indication at all display stations. Go to Control mode (unless it is power on time).	BSC: receipt of Poll or Selection with 3276 address resets all error indication. SDLC: receipt of valid SDLC frame resets all error indication. If problem persists, press Test Subsystem: if test succeeds, problem is probably in modem; if test fails, problem is probably 3276 component.
Log error code. Display error indication at all display stations. Go to Control mode.	
Log error code. Display error indication at affected display station.	Press Reset; retry Keying.
	(If Alt or Alpha was struck just prior to error, restrike to remove keyboard from Alt or Alpha shift status before pressing Reset.) Press Reset, and retry the operation.

Error Code	Indicator	Probable Cause
43 (Feature)	Retry: (X?+43)	MSR data parity error.
44 (Feature)	Mach Chk: (X  44)	Selector pen error.
45 (Feature)	Retry: - (X?+45)	No response/receive parity error from MSR read command.
46 (Prntr)	None	Printer detected a parity error in the printer buffer.
47 (Prntr)	None	Printer hardware error.
59 (Feature)	Mach Chk: (X  59)	Cryptographic device master key parity error.
60 (Feature)	Mach Chk: (X  60)	MSR time error during write command.
61 (Feature)	Mach Chk: (X  61)	Selector Pen Timeout.
63 (Feature)	Mach Chk: (X  63)	Cryptographic device error.
70 (Disp or Prntr)	Mach Chk: (X  70)	Terminal did not respond to a valid control unit transmission.
71 (Disp or Prntr)	Mach Chk: (X  71)	Control unit received data with bad parity from a terminal.

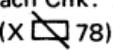
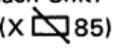
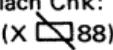
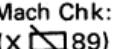
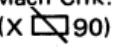
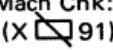
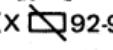
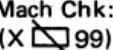
Effect	Recovery
Log error code. Display error indication at affected display station.	Press Reset, and retry the operation. Press Reset, and retry the operation.
Log error code. Disable printer after seven occurrences. Set sense/status: BSC: DC/US (for other than Clear or Search) SNA: 082B, or 081C after seven occurrences.	
Log error code. Disable printer. Set sense/status: BSC: DE EC IR SNA: 081C	
Log error code. Display error indication at affected display station after seven retries.	Press Reset to reset Machine Check symbol (further enciphered sessions are prevented until device is serviced).
	Press Reset to reset Machine Check symbol; retry operation.
Log error code. Retry.* Disable Selector Pen feature and display error indication at affected display station after seven retries.	At affected display station, switch Normal/Test from Normal to Test and back again to Normal.
Log error code. Display error indication at affected display station after seven retries.	Press Reset to reset Machine Check symbol (further enciphered sessions are prevented until device is serviced).
Log error code. Retry.* Display error indication at affected display station (display may not be successful because of display failure). (No error indication at station if it is a printer.) Disable display (or printer). Set sense/status. BSC: IR SNA: 081C Issue hardware poll and accept only POR from station.	At station, switch Normal/Test from Normal to Test and back again (or switch power off, then on).
Log error code. Retry.* Display error indication at affected display station. (No error indication at station if it is a printer.) Disable display (or printer). Set sense/status. BSC: DC/US SNA: 081C Issue hardware poll and accept only POR from station.	At station, switch Normal/Test from Normal to Test and back again (or switch power off, then on).

*Seven retries are made. (Remaining information in column assumes retries have failed).

Error Code	Indicator	Probable Cause
72 (Disp)	Mach Chk: (X  72)	Control unit received data with bad parity from a display station.
72 (Prntr)	None	Control unit received data with bad parity from a printer.
73 (Disp or Prntr)	Mach Chk: (X  73)	Operation not completed within specific time; Or, received: invalid busy, invalid security key status, invalid (or unsupported) terminal ID; or invalid, buffer address.
74 (Feature)	Mach Chk: (X  74)	Feature requested service, but failed to respond.
75 (MC)	Mach Chk Light Mach Chk: (X  75)	Internal malfunction.
76 (MC)	Mach Chk Light Mach Chk: (X  76)	Internal malfunction.
77 (Disp)	Mach Chk: (X  77)	Regen Buffer (Display) parity error.

Effect	Recovery
Log error code. Retry.* Display error indication at affected display station. Display display. Set sense/status: BSC: DC/US SNA: 081C Issue hardware poll and accept only POR from station.	At station, switch Normal/Test from Normal to Test and back again (or switch power off, then on).
Log error code. Retry.* Display printer. Set sense/status: BSC: DC/US SNA: 081C Issue hardware poll and accept only POR from station.	
Log error code. Display error indication at affected display station. (No error indication at station if it is a printer.) Disable display (or printer). Set sense/status: BSC: DC/US SNA: 081C Issue hardware poll and accept only POR from station.	
Log error code. Display error indication at affected display station. Retry poll.* Disable display. Set sense/status: BSC: DC/US SNA: 081C Issue hardware poll and accept only POR from station.	
Log error code. Retry* Display error indication at affected display station. Stop Poll. Set sense/status: BSC: DC/US SNA: 081C Poll is not issued and POR from station cannot be received.	Press and release Test Subsystem to cause POR sequence. If test fails or error occurs again, problem is probably 3276 component.
Log error code. Retry.* Display error indication at affected display station. Stop Poll. Set sense/status: BSC: DC/US SNA: 081C	
Log error code. Clear display. Display error indication at affected display station. Set sense/status: BSC: DC/US SNA: 082B Disable display if errors exceed threshold of 7. Issue hardware poll and accept only POR from station.	At station, switch Normal/Test from Normal to Test and back again (or switch power off, then on).

*Seven retries are made. (Remaining information in column assumes retries have failed).

Error Code	Indicator	Probable Cause
78 (BSC or SDLC)	Mach Chk Light Mach Chk: (X  78)	Consecutive POR completion signals were received.
79 (BSC or SDLC)	Mach Chk Light Mach Chk: (X  79)	Underrun or overrun has occurred seven times; CCA cannot handle its transmit receive data within proper time; CCA error.
84 (BSC and SDLC)	A problem in the EIA/CCITT card detected during BAT.	
85 (BSC and SDLC Integ Modem)	Mach Chk Light Mach Chk: (X  85)	Internal timeout occurred during data transmission; 3276 component problem (for example, modem clock failure, CS not active within specified time).
87 (BSC and SDLC) Integ Modem	Mach Chk Light Mach Chk: (X  87)	Data-communications equipment error (e.g., DSR may have not risen or fallen on time or unexpectedly, or CTS may have fallen unexpectedly during transmit mode).
88 (BSC and SDLC)	Mach Chk Light Mach Chk: (X  88)	Internal malfunction.
89 (MC)	Mach Chk Light Mach Chk: (X  89)	Invalid parity in data.
90 (MC)	Mach Chk Light Mach Chk: (X  90)	Invalid I/O operation with CCA.
91 (MC)	Mach Chk Light Mach Chk: (X  91)	Invalid I/O operation with system logic card.
92-98 (MC)	Mach Chk Light Mach Chk: (X  92-98)	A storage parity error occurred.
99 (MC)	Mach Chk Light Mach Chk: (X  99)	Invalid code; storage or control card failure.

Effect	Recovery
Log error code. Display error indication at affected display station. Stop poll. Set sense/status: BSC: DC/US SNA: 081C	Press and release Test Subsystem to cause POR sequence. If test fails or error occurs again, problem is probably 3276 component.
Log error code. Retry.* Display error indication at all stations.  Turn off Line Ready (OK). Stop machine.	
	Press and release test Subsystem to repeat BAT. If test fails or error occurs again, problem is probably 3276 component.
Integrated modem: Log error code. Display error indication at all display stations.  Turn off Line Ready (OK). Stop machine.	Press and release Test subsystem. If test fails or error occurs again, problem is probably 3276 component.
Integrated modem: Log error code. Display error indications at all display stations.  Turn off Line Ready (OK). Stop machine.	
Log error code. Display error indication at all display stations.  Turn off Line Ready (OK). Stop machine.	
Log error code. Retry.* Display error indication at all display stations.  Turn off Line Ready (OK). Stop machine.	
Log error code. Retry.* Display error indication at all display stations. Stop machine.	
Log error code. Display error indication and failing FRU at all display stations. Stop machine.	

*Seven retries are made. (Remaining information in column assumes retries have failed).

Error Code	Indicator	Probable Cause
21-79 (SDLC)	Sys Chk Light Program Chk: (X PROG 21-79)	<p>21: EXR from upstream node.</p> <p>22: Invalid OAF for PU (800F).</p> <p>23: PU Not Active (sense bits 8008).</p> <p>24: Unrecognized DAF (sense bits 8004).</p> <p>25: Segmenting Error.</p> <p>26: LU is not active (sense bits 8009).</p> <p>27: No LU-LU session (sense bits 8005).</p> <p>28: Invalid ACTPU parameter (0821).</p> <p>30: Data Traffic Reset state (sense bits 2005).</p> <p>31: Sequence number error (sense bits 2001).</p> <p>32: FM data chaining error (sense bits 2002).</p> <p>33: Normal flow DFC in INC state (sense bits 2002).</p> <p>34: BB is not found on FM data request (sense bits 2003).</p> <p>35: DFC carries EB in BETB (sense bits 2003).</p> <p>40: Invalid 3270 command (sense bits 1003).</p> <p>41: Data follows READ type command (sense bits 1003).</p> <p>42: Nonsupported SNA command (sense bits 1003).</p> <p>43: Control Function carried Null RU (sense bits 1003).</p> <p>44: Invalid SIGNAL request code (sense bits 1003).</p> <p>50: ORDER with invalid buffer address (sense bits 1005).</p> <p>51: Incomplete order sequence (sense bits 1005).</p> <p>59: FI bit in RH0 is not supported (sense bits 400F).</p> <p>60: CD in RH2 is required (sense bits 0829).</p> <p>61: Device check on printer during copy (sense bits 0843).</p> <p>68: Invalid ACTLU parameter (sense bits 0821).</p> <p>69: Sec. BIND is received from current PLU (sense bits 0815).</p> <p>70: Session limit exceeded (sense bits 0805).</p> <p>71: Bind RU is incomplete (sense bits 0821).</p> <p>72: Invalid support level (RU1-3) (sense bits 0821).</p> <p>73: Invalid PLU protocol (RU4) (sense bits 0821).</p> <p>74: Invalid SLU protocol (RU5) (sense bits 0821).</p> <p>75: Invalid common protocol (RU6, 7) (sense bits 0821).</p>

Effect	Recovery
<p>Log error.</p> <p>Note: <i>Code 10 is logged regardless of code displayed.</i></p> <p>Display error indication at affected display station; if it cannot be displayed there, display it at all other display stations.</p> <p>Set sense bits XXXX (as indicated in adjacent column).</p>	<p>Press Reset.</p> <p>Await recovery from host.</p>

Error Code	Indicator	Probable Cause
21-79 (SDLC)	Sys Chk Light Program Chk: (X PROG (21-79)	76: Too small RU length (RU10) (sense bits 0821). 77: Too large buffer size (RU9, 11) (sense bits 0821). 78: Invalid LU type (RU14) (sense bits 0821). 79: Invalid screen size (RU20-24) (sense bits 0821). 80: Cryptography not supported; BIND parameter error (RU26) (sense bits 0821). 82: Cryptographic session (BIND) parameter error (sense bits 0821). 85: Cryptographic state error (sense bits 2009). 86: CRV failure (sense bits 0821). 87: Cryptographic RU data error (sense bits 1001).

PRINTER STATUS INDICATOR CODES FOR 3284

Status Indicator Code	Name	Alarm**	Applicable to:	
			3271/3272 Attachment	3274/3276 Attachment
01	End of Form	X	X	X
07*	Received Invalid Order	X		X
08	Hold Print Timeout (10 minutes)		X	X
09	Operator Check (Operation Invalid)		X	X
27*	Subsystem Not Ready or Bad Cable			X
31	End of Form Timeout (60 seconds)			X
41*	Wire Fire Check	X	X	X
42*	Printer Not Ready	X	X	X
43*	Form Feed Error	X	X	X
44*	Emitter Check	X	X	X
45*	Emitter Sequence Error	X	X	X
46*	Carrier Timer Overflow	X	X	X
47*	Carrier Drive Error	X	X	X
50*	Selector Switch Error	X	X	X
51*	Data Count Error	X	X	X
52*	Internal Timeout	X		X
59	Cancel Selected			X
61	PA1 Selected			X
62	PA2 Selected			X
63	Printer in Send State	X		X
67	Buffer Reprint			X
81			X	X
82			X	X
83			X	X
84			X	X
85			X	X
86			X	X
87	Internal Parity or CU		X	X
88	Communication Error		X	X
89			X	X
90			X	X
91			X	X
92			X	X
94			X	X
99	Invalid Diagnostic Section Selected (Feature Support)		X	X

* Reset with the Reset switch.

** Alarm will be repetitively sounded for these status indicator codes and the Alarm Poll and SCS Bell commands. Alarm may be turned off by pressing the Hold Print Switch.

Effect	Recovery
<p>Log error. Note: <i>Code 10 is logged regardless of code displayed.</i></p> <p>Display error indication at affected display station; if it cannot be displayed there, display it at all other display stations.</p> <p>Set sense bits XXXX (as indicated in adjacent column).</p>	<p>Press Reset Await recovery from host.</p>

BIND DEFAULT FOR SNA 3274/3276

The following is suggested as a setting for the access method logmode table for LU type 1:

Byte	Binary bits
—	0123 4567
0	0011 0001
1	0000 0001
2	0000 0011
3	0000 0011
4	1011 0001
5	1001 0000
6	0011 0000
7	1000 0000
8	0000 0000
9	0000 0001
10	1000 0101
11	1000 0101 (3276)
	1000 0111 (3274)
12-13	0000 0000
14	0000 0001
15-17	0000 0000
18	1110 0001
19-26	0000 0000

The suggested settings for LU type 2 are the same as for LU type 1 except for:

Byte	Binary bits
—	0123 4567
9	0000 0000
10	1000 0111
14	0000 0010
18	0000 0000
24	0000 0001 Model 1
24	0000 0010 Model 2

The suggested settings for LU type 3 are the same as for LU type 1 except for:

Byte	Binary bits
—	0123 4567
9	0000 0000
14	0000 0011
18	0000 0000
24	0000 0000

SNA SENSE CODES

<u>Sense Byte One</u>	<u>Description</u>
X'00'	Path Error X'80' The 3274 or 3276 has not received or accepted an ACTPDU, or a control condition caused an internally generated DACTPDU.
X'04'	Unrecognized DAF' Controller does not have a terminal adapter for the DAF address.
X'05'	NO SESSION <ul style="list-style-type: none">• A Bind has not been received or accepted by the 3274 or 3276.• A request other than Bind is sent to an SLU which has already accepted a Bind, and the OAF' is not X'00' or the OAF in the accepted Bind.
X'08'	PU NOT Active
X'09'	LU NOT Active
X'0F'	Invalid Address Combination
RH Error X'40'	
X'06'	Exception Response Not Allowed (3274) LIC carried exception response when Bind specified definite response.
X'07'	Definite Response Not Allowed (3274) LIC Carried definite response when Bind specified exception response or \neg LIC carried definite response.
X'0A'	No-Response Not Allowed (3274) A chain element did not have DR1, DR2, or the exception bit set to 1.
X'0F'	Format Indicator Not Allowed An FM request received by the 3274 or 3276 indicated formatted header included.
State Error X'20'	
X'01'	Sequence Number Error The sequence number of the normal flow request did not match the number expected by the 3274 or 3276.
X'02'	Chaining Error Chain elements were out of protocol sequence.
X'03'	Bracket State Error A Bracket state error occurred.
X'04'	Direction Error (3274) A normal flow without begin bracket was received while the 3274 was in Send state.
X'05'	Data Traffic Reset An FM or DFC request was received before an SDT was received or accepted.
Request Error X'10'	
X'02'	RH Length Error (3274 Model1A) 3274 link buffer overflow occurred.

SNA SENSE CODES

<u>Sense Byte One</u>	<u>Description</u>
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X'03' — Function Not Supported

- Unsupported Session Control Request
- Unsupported Data Flow Control Request
- SIGNAL Code is not X'00010000'
- Network Control Request
- FM Data Stream
- Invalid Command
 - Data Following a Read, RM, RMA, or EAU command
 - For LU type 3, any Read, RM or RMA command.

X'05' — Parameter Error

Invalid address following SBA, RA, or EUA order (SBA, RA, or EUA order without parameters), or SCS parameter error.

X'07' — Category Not Supported

- An FMD request from the SSCP was received by a SLU which has an attached device without a keyboard.
- An unsupported network service message received.

Request Reject X'08'

X'01' — Resource Not Available

- LU type 2 (3274), A printer is not allowed by the Authorization Matrix
- For LU type 1 or 3 (3274), Bind reject because printer is authorized for Local mode only.
- For LU type 1 (3276), outbound pacing algorithm is overrun.

X'02' — Intervention Required (on principal device).

- For LU type 2, security key is tuned off
- For LU type 1 or 3, printer condition such as end of form, paper jam, printer cover up, or hold time out.

X'05' — Session Limit Exceeded

A Bind was received whose OAF' differs from the PLU already bound.

X'07' — Subsidiary Device Temporarily Not Available (3276)

For LU type 2, a printer to be copied to is In Bracket on an LU type 1 or 3 session, or an operator has depressed Device Cancel key.

X'0A' - Permission Rejected

Display or printer power is off. The SSCP will not be notified when the device powers on.

X'11' — Break

Sent on LU type 1 when the operator depresses the printer Hold Print key followed by Cancel key, if a chain has not completed printing.

X'13' — Bracket Bid Reject — (No RTR)

- Returned by LU types 1 and 2 to a BID or BID with Begin Bracket if the display has won contention and started a bracket.
- Returned by all LU types, when a BID or Begin Bracket was received, and INB state already exists. This may be a protocol error.

SNA SENSE CODES

Sense Byte One	Description
X'14'	Bracket Bid Reject – (RTR to follow). (3276) For LU type 1 or 3, the printer is busy doing local copy from a display. RTR will be returned when the printer becomes not busy with local copy.
X'15'	Function Active Bind reject if the same OAF' already has an accepted Bind to the SLU.
X'1B'	Receiver in Transmit Mode <ul style="list-style-type: none">The SLU is Between Bracket but a data key has been depressed.An FM message was received from the SSCP while the display was owned by the PLU-SLU session or is in Test mode.An SSCP FM message is rejected if local copy is taking place while the SSCP-SLU session owns the display.
X'1C'	Request Not Executable The 3274 or 3276 has a nonrecoverable error.
X'21'	Invalid Session Parameters <ul style="list-style-type: none">Bind parameters do not match the 3274 or 3276 Bind checks.3276 rejection of ACTPU or ACTLU if FM/TS profile byte is not X'01'
X'29'	Change Direction Required A 3270 read-type command was received without a Change Direction, or for the 3274 with an End Bracket.
X'2A'	Presentation Space Altered, Request Executed An LU type 2 3277 attached to a 3274 has a reset keyboard, and tried to enter while in receive state.
X'2B'	Presentation Space Integrity Lost <ul style="list-style-type: none">A temporary error has occurred; for example, parity check in device.An operator has cleared the display by switching to SSCP-SLU session or Test mode and returned to PLU-SLU session.
X'2D'	SLU Busy <ul style="list-style-type: none">LU type 2 Display is owned by SSCP-SLU session or Test mode.LU type 2 Display is busy doing an operator-initiated local copy.LU type 2 3277 attached to 3274 is busy with a Back Tab.
X'2E'	Intervention Required at Subsidiary Device. For LU type 2, a printer being copied to from a host-initiated print has intervention-required type error. Refer X'0802'. Printer power off or not attached to the controller is included in this category.
X'2F'	Request Not Executable Because of LU Subsidiary Device. For LU type 2, a printer being copied to has a nonrecoverable error.
X'4A'	Presentation Space Altered, Request Not Executed Refer to X'2A.'

SNA SENSE CODES

Sense
Byte
One Description

X'31' — LU Component Disconnected

This response is returned if the device attached to the 3274 or 3276 cannot be contacted by a device poll. This is due to device power off, cable detached from the controller port, or connecting cable broken.

Note: *this response is also returned on the SSCP-SLU session by the 3276.*

X'43' — Required Function Manager Synchronization Not Supplied (3274)

For LU type 2 or 3 chains having the print bit on, must be definite response or exception response chain must carry CD.

LOGICAL UNIT STATUS CODES

LUSTAT Returned

Negative Response Code	LU TYPE			
	T1	T2	T3	SSCP
0802	00010000	0001D000	00010000	NA
	082B0000	082B0000	082B0000	
	081C0000	081CD000	081C0000	
	08310000	08310000	08310000	
0807	NA	0001B000	NA	NA
		0801B000		
		081CB000		
		081CD000		
082D	NA	0001D000	NA	NA
		082B0000		
		081CD000		
082E	NA	0001B000	NA	NA
		0801B000		
		081CB000		
		081CD000		
0831	082B0000	082B0000	082B0000	NA
		081C0000	081CD000	NA

Sent By

LUSTAT	LU TYPE		
	T1	T2	T3
<u>SEND</u>			
<u>BETB</u>			
<u>ERP.1</u>			
00020000	X	X	X
081C0000	X		X
081CB000		X	
081CD000		X	
082B0000	X	X	X
08310000	X	X	X
0801B000		X	

ERROR RECOVERY PROCEDURES

The following sense codes are returned by a negative response or an LUSTAT. Suggested recovery procedures are indicated for each error code and must be evaluated for the needs of each user.

Negative Response Codes:

Error Code	Recovery Procedures (See Note(s))
Path errors X'80xx'	1
RH errors X'40xx'	2
State errors X'20xx'	2,3
Request errors X'10xx'	2,21
Request Reject: X'08xx'	See Note(s)

Hex 'xx'	LU Type 1	LU Type 2	LU Type 3
01	5	5 or 6	5
02	8	7	8
05	4	4	4
07	NA	7	NA
0A	4	4	4
11	9	NA	NA
13	10,11	10,11	10,11
14	12	NA	12
15	4	4	4
1B	NA	13	NA
1C	3,4	3,4	3,4
21	1	1	1
29	3,4	3,4	3,4
2A	NA	14	NA
2B	16	16	16
2D	NA	7	NA
2E	NA	7	NA
2F	NA	17	NA
31	7	7,18	7
43	NA	7,19	7,19

LUSTAT Sense Codes:

Hex Code	Recovery Procedure (See Note(s))
0001 0000	9a
0001 B000	9a
0001 D000	9a
0002 0000	21
082B 0000	16
081C 0000	3
081C B000	17
081C D000	3
0831 0000	7,18,20
0801 B000	6,17

Recovery Notes:

1. No recovery action can be taken until the 'xx' condition reported is corrected.
2. Unbind and correct program code.
3. Retry the operation up to three times by sending Clear, SDT, and starting traffic at a program check-point restart. Terminate the operation if the retries are not successful.
4. No recovery; look for an alternate terminal or terminate the operation.
5. Unbind, and look for an alternate terminal, or terminate the operation.
6. Read the display, and save for later printout.
7. Wait for LUSTAT; recovery based on LUSTAT code.
8. Wait for LUSTAT; retransmit chain.
9. User options:
 - a. Resend chain.
 - b. Send next chain.
 - c. Send query to printer operator for PA key response.
10. Check the input queue for inbound data with BB and CD.
11. Protocol error occurred. Retry without BID or BB.
12. Wait for RTR to begin bracket.
13. a. Check the input queue, and wait for data.
b. Send SIGNAL to get CD.
14. Retry with CD and not EB.
15. User options:
 - a. Send Null or comment RU with CD to give control to operator.
 - b. Send Read Modified command with CD to obtain display AIDS and modified data.
 - c. Reformat display from check-point restart.
16. Reformat display or printer from check-point restart.
17. Retry the operation up to three times by use of Write command and WCC with Start Print bit set to 1. An alternate printer may become available.
18. Unbind to force user identification by entering new logon.
19. Retry with correct bit settings.
20. When received, the user must be sure the secondary logical unit is in ERP1 or send state, to allow sending the LUSTAT which indicates a power-on condition. The 3276 requires user action to change state if it has sent LUSTAT 08310000 while BETB.
21. Program dependent:
 - a. If input is required from terminal, unbind and select an alternate terminal.
 - b. If input is not required, data output may continue. CD should be suppressed.

BUFFER ADDRESS I/O INTERFACE CODES

Mod 1	Mods 2,3,4	Position	Buffer Address (Hex)			
R C	R C	Dec Hex	EBCDIC	ASCII		
01 01	01 01	0000 0000	40	40	20	20
01 02	01 02	0001 0001	40	C1	20	41
01 03	01 03	0002 0002	40	C2	20	42
01 04	01 04	0003 0003	40	C3	20	43
01 05	01 05	0004 0004	40	C4	20	44
01 06	01 06	0005 0005	40	C5	20	45
01 07	01 07	0006 0006	40	C6	20	46
01 08	01 08	0007 0007	40	C7	20	47
01 09	01 09	0008 0008	40	C8	20	48
01 10	01 10	0009 0009	40	C9	20	49
01 11	01 11	0010 000A	40	4A	20	5B
01 12	01 12	0011 000B	40	4B	20	2E
01 13	01 13	0012 000C	40	4C	20	3C
01 14	01 14	0013 000D	40	4D	20	28
01 15	01 15	0014 000E	40	4E	20	2B
01 16	01 16	0015 000F	40	4F	20	21
01 17	01 17	0016 0010	40	50	20	26
01 18	01 18	0017 0011	40	D1	20	4A
01 19	01 19	0018 0012	40	D2	20	4B
01 20	01 20	0019 0013	40	D3	20	4C
01 21	01 21	0020 0014	40	D4	20	4D
01 22	01 22	0021 0015	40	D5	20	4E
01 23	01 23	0022 0016	40	D6	20	4F
01 24	01 24	0023 0017	40	D7	20	50
01 25	01 25	0024 0018	40	D8	20	51
01 26	01 26	0025 0019	40	D9	20	52
01 27	01 27	0026 001A	40	5A	20	5D
01 28	01 28	0027 001B	40	5B	20	24
01 29	01 29	0028 001C	40	5C	20	2A
01 30	01 30	0029 001D	40	5D	20	29
01 31	01 31	0030 001E	40	5E	20	3B
01 32	01 32	0031 001F	40	5F	20	5E
01 33	01 33	0032 0020	40	60	20	2D
01 34	01 34	0033 0021	40	61	20	2F
01 35	01 35	0034 0022	40	E2	20	53
01 36	01 36	0035 0023	40	E3	20	54
01 37	01 37	0036 0024	40	E4	20	55
01 38	01 38	0037 0025	40	E5	20	56
01 39	01 39	0038 0026	40	E6	20	57
01 40	01 40	0039 0027	40	E7	20	58
02 01	01 41	0040 0028	40	E8	20	59
02 02	01 42	0041 0029	40	E9	20	5A
02 03	01 43	0042 002A	40	6A	20	7C
02 04	01 44	0043 002B	40	6B	20	2C
02 05	01 45	0044 002C	40	6C	20	25
02 06	01 46	0045 002D	40	6D	20	5F
02 07	01 47	0046 002E	40	6E	20	3E
02 08	01 48	0047 002F	40	6F	20	3F
02 09	01 49	0048 0030	40	F0	20	30
02 10	01 50	0049 0031	40	F1	20	31
02 11	01 51	0050 0032	40	F2	20	32
02 12	01 52	0051 0033	40	F3	20	33
02 13	01 53	0052 0034	40	F4	20	34
02 14	01 54	0053 0035	40	F5	20	35
02 15	01 55	0054 0036	40	F6	20	36
02 16	01 56	0055 0037	40	F7	20	37
02 17	01 57	0056 0038	40	F8	20	38
02 18	01 58	0057 0039	40	F9	20	39
02 19	01 59	0058 003A	40	7A	20	3A
02 20	01 60	0059 003B	40	7B	20	23
02 21	01 61	0060 003C	40	7C	20	40
02 22	01 62	0061 003D	40	7D	20	27

Legend: R = Row
C = Column

Mod 1 R C	Mods 2,3,4 R C	Position Dec Hex	Buffer Address (Hex)			
			EBCDIC	ASCII		
02 23	01 63	0062 003E	40	7E	20	3D
02 24	01 64	0063 003F	40	7F	20	22
02 25	01 65	0064 0040	C1	40	41	20
02 26	01 66	0065 0041	C1	C1	41	41
02 27	01 67	0066 0042	C1	C2	41	42
02 28	01 68	0067 0043	C1	C3	41	43
02 29	01 69	0068 0044	C1	C4	41	44
02 30	01 70	0069 0045	C1	C5	41	45
02 31	01 71	0070 0046	C1	C6	41	46
02 32	01 72	0071 0047	C1	C7	41	47
02 33	01 73	0072 0048	C1	C8	41	48
02 34	01 74	0073 0049	C1	C9	41	49
02 35	01 75	0074 004A	C1	4A	41	58
02 36	01 76	0075 004B	C1	4B	41	2E
02 37	01 77	0076 004C	C1	4C	41	3C
02 38	01 78	0077 004D	C1	4D	41	28
02 39	01 79	0078 004E	C1	4E	41	2B
02 40	01 80	0079 004F	C1	4F	41	21
03 01	02 01	0080 0050	C1	50	41	26
03 02	02 02	0081 0051	C1	D1	41	4A
03 03	02 03	0082 0052	C1	D2	41	4B
03 04	02 04	0083 0053	C1	D3	41	4C
03 05	02 05	0084 0054	C1	D4	41	4D
03 06	02 06	0085 0055	C1	D5	41	4E
03 07	02 07	0086 0056	C1	D6	41	4F
03 08	02 08	0087 0057	C1	D7	41	50
03 09	02 09	0088 0058	C1	D8	41	51
03 10	02 10	0089 0059	C1	D9	41	52
03 11	02 11	0090 005A	C1	5A	41	5D
03 12	02 12	0091 005B	C1	5B	41	24
03 13	02 13	0092 005C	C1	5C	41	2A
03 14	02 14	0093 005D	C1	5D	41	29
03 15	02 15	0094 005E	C1	5E	41	3B
03 16	02 16	0095 005F	C1	5F	41	5E
03 17	02 17	0096 0060	C1	60	41	2D
03 18	02 18	0097 0061	C1	61	41	2F
03 19	02 19	0098 0062	C1	E2	41	53
03 20	02 20	0099 0063	C1	E3	41	54
03 21	02 21	0100 0064	C1	E4	41	55
03 22	02 22	0101 0065	C1	E5	41	56
03 23	02 23	0102 0066	C1	E6	41	57
03 24	02 24	0103 0067	C1	E7	41	58
03 25	02 25	0104 0068	C1	E8	41	59
03 26	02 26	0105 0069	C1	E9	41	5A
03 27	02 27	0106 006A	C1	6A	41	7C
03 28	02 28	0107 006B	C1	6B	41	2C
03 29	02 29	0108 006C	C1	6C	41	25
03 30	02 30	0109 006D	C1	6D	41	5F
03 31	02 31	0110 006E	C1	6E	41	3E
03 32	02 32	0111 006F	C1	6F	41	3F
03 33	02 33	0112 0070	C1	F0	41	30
03 34	02 34	0113 0071	C1	F1	41	31
03 35	02 35	0114 0072	C1	F2	41	32
03 36	02 36	0115 0073	C1	F3	41	33
03 37	02 37	0116 0074	C1	F4	41	34
03 38	02 38	0117 0075	C1	F5	41	35
03 39	02 39	0118 0076	C1	F6	41	36
03 40	02 40	0119 0077	C1	F7	41	37
04 01	02 41	0120 0078	C1	F8	41	38
04 02	02 42	0121 0079	C1	F9	41	39
04 03	02 43	0122 007A	C1	7A	41	3A
04 04	02 44	0123 007B	C1	7B	41	23

Mod 1 R C	Mod 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
04 05	02 45	0124	007C	C1	7C	41	40
04 06	02 46	0125	007D	C1	7D	41	27
04 07	02 47	0126	007E	C1	7E	41	3D
04 08	02 48	0127	007F	C1	7F	41	22
04 09	02 49	0128	0080	C2	40	42	20
04 10	02 50	0129	0081	C2	C1	42	41
04 11	02 51	0130	0082	C2	C2	42	42
04 12	02 52	0131	0083	C2	C3	42	43
04 13	02 53	0132	0084	C2	C4	42	44
04 14	02 54	0133	0085	C2	C5	42	45
04 15	02 55	0134	0086	C2	C6	42	46
04 16	02 56	0135	0087	C2	C7	42	47
04 17	02 57	0136	0088	C2	C8	42	48
04 18	02 58	0137	0089	C2	C9	42	49
04 19	02 59	0138	008A	C2	4A	42	5B
04 20	02 60	0139	008B	C2	4B	42	2E
04 21	02 61	0140	008C	C2	4C	42	3C
04 22	02 62	0141	008D	C2	4D	42	28
04 23	02 63	0142	008E	C2	4E	42	2B
04 24	02 64	0143	008F	C2	4F	42	21
04 25	02 65	0144	0090	C2	50	42	26
04 26	02 66	0145	0091	C2	D1	42	4A
04 27	02 67	0146	0092	C2	D2	42	4B
04 28	02 68	0147	0093	C2	D3	42	4C
04 29	02 69	0148	0094	C2	D4	42	4D
04 30	02 70	0149	0095	C2	D5	42	4E
04 31	02 71	0150	0096	C2	D6	42	4F
04 32	02 72	0151	0097	C2	D7	42	50
04 33	02 73	0152	0098	C2	D8	42	51
04 34	02 74	0153	0099	C2	D9	42	52
04 35	02 75	0154	009A	C2	5A	42	5D
04 36	02 76	0155	009B	C2	5B	42	24
04 37	02 77	0156	009C	C2	5C	42	2A
04 38	02 78	0157	009D	C2	5D	42	29
04 39	02 79	0158	009E	C2	5E	42	3B
04 40	02 80	0159	009F	C2	5F	42	5E
05 01	03 01	0160	00A0	C2	60	42	2D
05 02	03 02	0161	00A1	C2	61	42	2F
05 03	03 03	0162	00A2	C2	E2	42	53
05 04	03 04	0163	00A3	C2	E3	42	54
05 05	03 05	0164	00A4	C2	E4	42	55
05 06	03 06	0165	00A5	C2	E5	42	56
05 07	03 07	0166	00A6	C2	E6	42	57
05 08	03 08	0167	00A7	C2	E7	42	58
05 09	03 09	0168	00A8	C2	E8	42	59
05 10	03 10	0169	00A9	C2	E9	42	5A
05 11	03 11	0170	00AA	C2	6A	42	7C
05 12	03 12	0171	00AB	C2	6B	42	2C
05 13	03 13	0172	00AC	C2	6C	42	25
05 14	03 14	0173	00AD	C2	6D	42	5F
05 15	03 15	0174	00AE	C2	6E	42	3E
05 16	03 16	0175	00AF	C2	6F	42	3F
05 17	03 17	0176	00B0	C2	F0	42	30
05 18	03 18	0177	00B1	C2	F1	42	31
05 19	03 19	0178	00B2	C2	F2	42	32
05 20	03 20	0179	00B3	C2	F3	42	33
05 21	03 21	0180	00B4	C2	F4	42	34
05 22	03 22	0181	00B5	C2	F5	42	35
05 23	03 23	0182	00B6	C2	F6	42	36
05 24	03 24	0183	00B7	C2	F7	42	37
05 25	03 25	0184	00B8	C2	F8	42	38
05 26	03 26	0185	00B9	C2	F9	42	39

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
05 27	03 27	0186	00BA	C2	7A	42 3A
05 28	03 28	0187	00BB	C2	7B	42 23
05 29	03 29	0188	00BC	C2	7C	42 40
05 30	03 30	0189	00BD	C2	7D	42 27
05 31	03 31	0190	00BE	C2	7E	42 3D
05 32	03 32	0191	00BF	C2	7F	42 22
05 33	03 33	0192	00C0	C3	40	43 20
05 34	03 34	0193	00C1	C3	C1	43 41
05 35	03 35	0194	00C2	C3	C2	43 42
05 36	03 36	0195	00C3	C3	C3	43 43
05 37	03 37	0196	00C4	C3	C4	43 44
05 38	03 38	0197	00C5	C3	C5	43 45
05 39	03 39	0198	00C6	C3	C6	43 46
05 40	03 40	0199	00C7	C3	C7	43 47
06 01	03 41	0200	00C8	C3	C8	43 48
06 02	03 42	0201	00C9	C3	C9	43 49
06 03	03 43	0202	00CA	C3	4A	43 5B
06 04	03 44	0203	00CB	C3	4B	43 2E
06 05	03 45	0204	00CC	C3	4C	43 3C
06 06	03 46	0205	00CD	C3	4D	43 28
06 07	03 47	0206	00CE	C3	4E	43 2B
06 08	03 48	0207	00CF	C3	4F	43 21
06 09	03 49	0208	00D0	C3	50	43 26
06 10	03 50	0209	00D1	C3	D1	43 4A
06 11	03 51	0210	00D2	C3	D2	43 4B
06 12	03 52	0211	00D3	C3	D3	43 4C
06 13	03 53	0212	00D4	C3	D4	43 4D
06 14	03 54	0213	00D5	C3	D5	43 4E
06 15	03 55	0214	00D6	C3	D6	43 4F
06 16	03 56	0215	00D7	C3	D7	43 50
06 17	03 57	0216	00D8	C3	D8	43 51
06 18	03 58	0217	00D9	C3	D9	43 52
06 19	03 59	0218	00DA	C3	5A	43 5D
06 20	03 60	0219	00DB	C3	5B	43 24
06 21	03 61	0220	00DC	C3	5C	43 2A
06 22	03 62	0221	00DD	C3	5D	43 29
06 23	03 63	0222	00DE	C3	5E	43 3B
06 24	03 64	0223	00DF	C3	5F	43 5E
06 25	03 65	0224	00EO	C3	60	43 2D
06 26	03 66	0225	00E1	C3	61	43 2F
06 27	03 67	0226	00E2	C3	E2	43 53
06 28	03 68	0227	00E3	C3	E3	43 54
06 29	03 69	0228	00E4	C3	E4	43 55
06 30	03 70	0229	00E5	C3	E5	43 56
06 31	03 71	0230	00E6	C3	E6	43 57
06 32	03 72	0231	00E7	C3	E7	43 58
06 33	03 73	0232	00E8	C3	E8	43 59
06 34	03 74	0233	00E9	C3	E9	43 5A
06 35	03 75	0234	00EA	C3	6A	43 7C
06 36	03 76	0235	00EB	C3	6B	43 2C
06 37	03 77	0236	00EC	C3	6C	43 25
06 38	03 78	0237	00ED	C3	6D	43 5F
06 39	03 79	0238	00EE	C3	6E	43 3E
06 40	03 80	0239	00EF	C3	6F	43 3F
07 01	04 01	0240	00F0	C3	F0	43 30
07 02	04 02	0241	00F1	C3	F1	43 31
07 03	04 03	0242	00F2	C3	F2	43 32
07 04	04 04	0243	00F3	C3	F3	43 33
07 05	04 05	0244	00F4	C3	F4	43 34
07 06	04 06	0245	00F5	C3	F5	43 35
07 07	04 07	0246	00F6	C3	F6	43 36
07 08	04 08	0247	00F7	C3	F7	43 37

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
07 09	04 09	0248	00F8	C3	F8	43 38
07 10	04 10	0249	00F9	C3	F9	43 39
07 11	04 11	0250	00FA	C3	7A	43 3A
07 12	04 12	0251	00FB	C3	7B	43 23
07 13	04 13	0252	00FC	C3	7C	43 40
07 14	04 14	0253	00FD	C3	7D	43 27
07 15	04 15	0254	00FE	C3	7E	43 3D
07 16	04 16	0255	00FF	C3	7F	43 22
07 17	04 17	0256	0100	C4	40	44 20
07 18	04 18	0257	0101	C4	C1	44 41
07 19	04 19	0258	0102	C4	C2	44 42
07 20	04 20	0259	0103	C4	C3	44 43
07 21	04 21	0260	0104	C4	C4	44 44
07 22	04 22	0261	0105	C4	C5	44 45
07 23	04 23	0262	0106	C4	C6	44 46
07 24	04 24	0263	0107	C4	C7	44 47
07 25	04 25	0264	0108	C4	C8	44 48
07 26	04 26	0265	0109	C4	C9	44 49
07 27	04 27	0266	010A	C4	4A	44 5B
07 28	04 28	0267	010B	C4	4B	44 2E
07 29	04 29	0268	010C	C4	4C	44 3C
07 30	04 30	0269	010D	C4	4D	44 28
07 31	04 31	0270	010E	C4	4E	44 2B
07 32	04 32	0271	010F	C4	4F	44 21
07 33	04 33	0272	0110	C4	50	44 26
07 34	04 34	0273	0111	C4	D1	44 4A
07 35	04 35	0274	0112	C4	D2	44 4B
07 36	04 36	0275	0113	C4	D3	44 4C
07 37	04 37	0276	0114	C4	D4	44 4D
07 38	04 38	0277	0115	C4	D5	44 4E
07 39	04 39	0278	0116	C4	D6	44 4F
07 40	04 40	0279	0117	C4	D7	44 50
08 01	04 41	0280	0118	C4	D8	44 51
08 02	04 42	0281	0119	C4	D9	44 52
08 03	04 43	0282	011A	C4	5A	44 5D
08 04	04 44	0283	011B	C4	5B	44 24
08 05	04 45	0284	011C	C4	5C	44 2A
08 06	04 46	0285	011D	C4	5D	44 29
08 07	04 47	0286	011E	C4	5E	44 3B
08 08	04 48	0287	011F	C4	5F	44 5E
08 09	04 49	0288	0120	C4	60	44 2D
08 10	04 50	0289	0121	C4	61	44 2F
08 11	04 51	0290	0122	C4	E2	44 53
08 12	04 52	0291	0123	C4	E3	44 54
08 13	04 53	0292	0124	C4	E4	44 55
08 14	04 54	0293	0125	C4	E5	44 56
08 15	04 55	0294	0126	C4	E6	44 57
08 16	04 56	0295	0127	C4	E7	44 58
08 17	04 57	0296	0128	C4	E8	44 59
08 18	04 58	0297	0129	C4	E9	44 5A
08 19	04 59	0298	012A	C4	6A	44 7C
08 20	04 60	0299	012B	C4	6B	44 2C
08 21	04 61	0300	012C	C4	6C	44 25
08 22	04 62	0301	012D	C4	6D	44 5F
08 23	04 63	0302	012E	C4	6E	44 3E
08 24	04 64	0303	012F	C4	6F	44 3F
08 25	04 65	0304	0130	C4	F0	44 30
08 26	04 66	0305	0131	C4	F1	44 31
08 27	04 67	0306	0132	C4	F2	44 32
08 28	04 68	0307	0133	C4	F3	44 33
08 29	04 69	0308	0134	C4	F4	44 34
08 30	04 70	0309	0135	C4	F5	44 35

Mod 1 R C	Mods 2,3,4 R C	Position Dec Hex	Buffer Address (Hex)			
			EBCDIC	ASCII		
08 31	04 71	0310 0136	C4	F6	44	36
08 32	04 72	0311 0137	C4	F7	44	37
08 33	04 73	0312 0138	C4	F8	44	38
08 34	04 74	0313 0139	C4	F9	44	39
08 35	04 75	0314 013A	C4	7A	44	3A
08 36	04 76	0315 013B	C4	7B	44	23
08 37	04 77	0316 013C	C4	7C	44	40
08 38	04 78	0317 013D	C4	7D	44	27
08 39	04 79	0318 013E	C4	7E	44	3D
08 40	04 80	0319 013F	C4	7F	44	22
09 01	05 01	0320 0140	C5	40	45	20
09 02	05 02	0321 0141	C5	C1	45	41
09 03	05 03	0322 0142	C5	C2	45	42
09 04	05 04	0323 0143	C5	C3	45	43
09 05	05 05	0324 0144	C5	C4	45	44
09 06	05 06	0325 0145	C5	C5	45	45
09 07	05 07	0326 0146	C5	C6	45	46
09 08	05 08	0327 0147	C5	C7	45	47
09 09	05 09	0328 0148	C5	C8	45	48
09 10	05 10	0329 0149	C5	C9	45	49
09 11	05 11	0330 014A	C5	4A	45	5B
09 12	05 12	0331 014B	C5	4B	45	2E
09 13	05 13	0332 014C	C5	4C	45	3C
09 14	05 14	0333 014D	C5	4D	45	28
09 15	05 15	0334 014E	C5	4E	45	2B
09 16	05 16	0335 014F	C5	4F	45	21
09 17	05 17	0336 0150	C5	50	45	26
09 18	05 18	0337 0151	C5	D1	45	4A
09 19	05 19	0338 0152	C5	D2	45	4B
09 20	05 20	0339 0153	C5	D3	45	4C
09 21	05 21	0340 0154	C5	D4	45	4D
09 22	05 22	0341 0155	C5	D5	45	4E
09 23	05 23	0342 0156	C5	D6	45	4F
09 24	05 24	0343 0157	C5	D7	45	50
09 25	05 25	0344 0158	C5	D8	45	51
09 26	05 26	0345 0159	C5	D9	45	52
09 27	05 27	0346 015A	C5	5A	45	5D
09 28	05 28	0347 015B	C5	5B	45	24
09 29	05 29	0348 015C	C5	5C	45	2A
09 30	05 30	0349 015D	C5	5D	45	29
09 31	05 31	0350 015E	C5	5E	45	3B
09 32	05 32	0351 015F	C5	5F	45	5E
09 33	05 33	0352 0160	C5	60	45	2D
09 34	05 34	0353 0161	C5	61	45	2F
09 35	05 35	0354 0162	C5	E2	45	53
09 36	05 36	0355 0163	C5	E3	45	54
09 37	05 37	0356 0164	C5	E4	45	55
09 38	05 38	0357 0165	C5	E5	45	56
09 39	05 39	0358 0166	C5	E6	45	57
09 40	05 40	0359 0167	C5	E7	45	58
10 01	05 41	0360 0168	C5	E8	45	59
10 02	05 42	0361 0169	C5	E9	45	5A
10 03	05 43	0362 016A	C5	6A	45	7C
10 04	05 44	0363 016B	C5	6B	45	2C
10 05	05 45	0364 016C	C5	6C	45	25
10 06	05 46	0365 016D	C5	6D	45	5F
10 07	05 47	0366 016E	C5	6E	45	3E
10 08	05 48	0367 016F	C5	6F	45	3F
10 09	05 49	0368 0170	C5	F0	45	30
10 10	05 50	0369 0171	C5	F1	45	31
10 11	05 51	0370 0172	C5	F2	45	32
10 12	05 52	0371 0173	C5	F3	45	33

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
10 13	05 53	0372	0174	C5	F4	45	34
10 14	05 54	0373	0175	C5	F5	45	35
10 15	05 55	0374	0176	C5	F6	45	36
10 16	05 56	0375	0177	C5	F7	45	37
10 17	05 57	0376	0178	C5	F8	45	38
10 18	05 58	0377	0179	C5	F9	45	39
10 19	05 59	0378	017A	C5	7A	45	3A
10 20	05 60	0379	017B	C5	7B	45	23
10 21	05 61	0380	017C	C5	7C	45	40
10 22	05 62	0381	017D	C5	7D	45	27
10 23	05 63	0382	017E	C5	7E	45	3D
10 24	05 64	0383	017F	C5	7F	45	22
10 25	05 65	0384	0180	C6	40	46	20
10 26	05 66	0385	0181	C6	C1	46	41
10 27	05 67	0386	0182	C6	C2	46	42
10 28	05 68	0387	0183	C6	C3	46	43
10 29	05 69	0388	0184	C6	C4	46	44
10 30	05 70	0389	0185	C6	C5	46	45
10 31	05 71	0390	0186	C6	C6	46	46
10 32	05 72	0391	0187	C6	C7	46	47
10 33	05 73	0392	0188	C6	C8	46	48
10 34	05 74	0393	0189	C6	C9	46	49
10 35	05 75	0394	018A	C6	4A	46	5B
10 36	05 76	0395	018B	C6	4B	46	2E
10 37	05 77	0396	018C	C6	4C	46	3C
10 38	05 78	0397	018D	C6	4D	46	28
10 39	05 79	0398	018E	C6	4E	46	2B
10 40	05 80	0399	018F	C6	4F	46	21
11 01	06 01	0400	0190	C6	50	46	26
11 02	06 02	0401	0191	C6	D1	46	4A
11 03	06 03	0402	0192	C6	D2	46	4B
11 04	06 04	0403	0193	C6	D3	46	4C
11 05	06 05	0404	0194	C6	D4	46	4D
11 06	06 06	0405	0195	C6	D5	46	4E
11 07	06 07	0406	0196	C6	D6	46	4F
11 08	06 08	0407	0197	C6	D7	46	50
11 09	06 09	0408	0198	C6	D8	46	51
11 10	06 10	0409	0199	C6	D9	46	52
11 11	06 11	0410	019A	C6	5A	46	5D
11 12	06 12	0411	019B	C6	5B	46	24
11 13	06 13	0412	019C	C6	5C	46	2A
11 14	06 14	0413	019D	C6	5D	46	29
11 15	06 15	0414	019E	C6	5E	46	3B
11 16	06 16	0415	019F	C6	5F	46	5E
11 17	06 17	0416	01A0	C6	60	46	2D
11 18	06 18	0417	01A1	C6	61	46	2F
11 19	06 19	0418	01A2	C6	E2	46	53
11 20	06 20	0419	01A3	C6	E3	46	54
11 21	06 21	0420	01A4	C6	E4	46	55
11 22	06 22	0421	01A5	C6	E5	46	56
11 23	06 23	0422	01A6	C6	E6	46	57
11 24	06 24	0423	01A7	C6	E7	46	58
11 25	06 25	0424	01A8	C6	E8	46	59
11 26	06 26	0425	01A9	C6	E9	46	5A
11 27	06 27	0426	01AA	C6	6A	46	7C
11 28	06 28	0427	01AB	C6	6B	46	2C
11 29	06 29	0428	01AC	C6	6C	46	25
11 30	06 30	0429	01AD	C6	6D	46	5F
11 31	06 31	0430	01AE	C6	6E	46	3E
11 32	06 32	0431	01AF	C6	6F	46	3F
11 33	06 33	0432	01B0	C6	F0	46	30
11 34	06 34	0433	01B1	C6	F1	46	31

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
11 35	06 35	0434	01B2	C6	F2	46 32
11 36	06 36	0435	01B3	C6	F3	46 33
11 37	06 37	0436	01B4	C6	F4	46 34
11 38	06 38	0437	01B5	C6	F5	46 35
11 39	06 39	0438	01B6	C6	F6	46 36
11 40	06 40	0439	01B7	C6	F7	46 37
12 01	06 41	0440	01B8	C6	F8	46 38
12 02	06 42	0441	01B9	C6	F9	46 39
12 03	06 43	0442	01BA	C6	7A	46 3A
12 04	06 44	0443	01BB	C6	7B	46 23
12 05	06 45	0444	01BC	C6	7C	46 40
12 06	06 46	0445	01BD	C6	7D	46 27
12 07	06 47	0446	01BE	C6	7E	46 3D
12 08	06 48	0447	01BF	C6	7F	46 22
12 09	06 49	0448	01C0	C7	40	47 20
12 10	06 50	0449	01C1	C7	C1	47 41
12 11	06 51	0450	01C2	C7	C2	47 42
12 12	06 52	0451	01C3	C7	C3	47 43
12 13	06 53	0452	01C4	C7	C4	47 44
12 14	06 54	0453	01C5	C7	C5	47 45
12 15	06 55	0454	01C6	C7	C6	47 46
12 16	06 56	0455	01C7	C7	C7	47 47
12 17	06 57	0456	01C8	C7	C8	47 48
12 18	06 58	0457	01C9	C7	C9	47 49
12 19	06 59	0458	01CA	C7	4A	47 5B
12 20	06 60	0459	01CB	C7	4B	47 2E
12 21	06 61	0460	01CC	C7	4C	47 3C
12 22	06 62	0461	01CD	C7	4D	47 28
12 23	06 63	0462	01CE	C7	4E	47 2B
12 24	06 64	0463	01CF	C7	4F	47 21
12 25	06 65	0464	01D0	C7	50	47 26
12 26	06 66	0465	01D1	C7	D1	47 4A
12 27	06 67	0466	01D2	C7	D2	47 4B
12 28	06 68	0467	01D3	C7	D3	47 4C
12 29	06 69	0468	01D4	C7	D4	47 4D
12 30	06 70	0469	01D5	C7	D5	47 4E
12 31	06 71	0470	01D6	C7	D6	47 4F
12 32	06 72	0471	01D7	C7	D7	47 50
12 33	06 73	0472	01D8	C7	D8	47 51
12 34	06 74	0473	01D9	C7	D9	47 52
12 35	06 75	0474	01DA	C7	5A	47 5D
12 36	06 76	0475	01DB	C7	5B	47 24
12 37	06 77	0476	01DC	C7	5C	47 2A
12 38	06 78	0477	01DD	C7	5D	47 29
12 39	06 79	0478	01DE	C7	5E	47 3B
12 40	06 80	0479	01DF	C7	5F	47 5E
	07 01	0480	01E0	C7	60	47 2D
	07 02	0481	01E1	C7	61	47 2F
	07 03	0482	01E2	C7	E2	47 53
	07 04	0483	01E3	C7	E3	47 54
	07 05	0484	01E4	C7	E4	47 55
	07 06	0485	01E5	C7	E5	47 56
	07 07	0486	01E6	C7	E6	47 57
	07 08	0487	01E7	C7	E7	47 58
	07 09	0488	01E8	C7	E8	47 59
	07 10	0489	01E9	C7	E9	47 5A
	07 11	0490	01EA	C7	6A	47 7C
	07 12	0491	01EB	C7	6B	47 2C
	07 13	0492	01EC	C7	6C	47 25
	07 14	0493	01ED	C7	6D	47 5F
	07 15	0494	01EE	C7	6E	47 3E
	07 16	0495	01EF	C7	6F	47 3F

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
07 17	0496	01F0	C7	F0	47	30
07 18	0497	01F1	C7	F1	47	31
07 19	0498	01F2	C7	F2	47	32
07 20	0499	01F3	C7	F3	47	33
07 21	0500	01F4	C7	F4	47	34
07 22	0501	01F5	C7	F5	47	35
07 23	0502	01F6	C7	F6	47	36
07 24	0503	01F7	C7	F7	47	37
07 25	0504	01F8	C7	F8	47	38
07 26	0505	01F9	C7	F9	47	39
07 27	0506	01FA	C7	7A	47	3A
07 28	0507	01FB	C7	7B	47	23
07 29	0508	01FC	C7	7C	47	40
07 30	0509	01FD	C7	7D	47	27
07 31	0510	01FE	C7	7E	47	3D
07 32	0511	01FF	C7	7F	47	22
07 33	0512	0200	C8	40	48	20
07 34	0513	0201	C8	C1	48	41
07 35	0514	0202	C8	C2	48	42
07 36	0515	0203	C8	C3	48	43
07 37	0516	0204	C8	C4	48	44
07 38	0517	0205	C8	C5	48	45
07 39	0518	0206	C8	C6	48	46
07 40	0519	0207	C8	C7	48	47
07 41	0520	0208	C8	C8	48	48
07 42	0521	0209	C8	C9	48	49
07 43	0522	020A	C8	4A	48	5B
07 44	0523	020B	C8	4B	48	2E
07 45	0524	020C	C8	4C	48	3C
07 46	0525	020D	C8	4D	48	28
07 47	0526	020E	C8	4E	48	2B
07 48	0527	020F	C8	4F	48	21
07 49	0528	0210	C8	50	48	26
07 50	0529	0211	C8	D1	48	4A
07 51	0530	0212	C8	D2	48	4B
07 52	0531	0213	C8	D3	48	4C
07 53	0532	0214	C8	D4	48	4D
07 54	0533	0215	C8	D5	48	4E
07 55	0534	0216	C8	D6	48	4F
07 56	0535	0217	C8	D7	48	50
07 57	0536	0218	C8	D8	48	51
07 58	0537	0219	C8	D9	48	52
07 59	0538	021A	C8	5A	48	5D
07 60	0539	021B	C8	5B	48	24
07 61	0540	021C	C8	5C	48	2A
07 62	0541	021D	C8	5D	48	29
07 63	0542	021E	C8	5E	48	3B
07 64	0543	021F	C8	5F	48	5E
07 65	0544	0220	C8	60	48	2D
07 66	0545	0221	C8	61	48	2F
07 67	0546	0222	C8	E2	48	53
07 68	0547	0223	C8	E3	48	54
07 69	0548	0224	C8	E4	48	55
07 70	0549	0225	C8	E5	48	56
07 71	0550	0226	C8	E6	48	57
07 72	0551	0227	C8	E7	48	58
07 73	0552	0228	C8	E8	48	59
07 74	0553	0229	C8	E9	48	5A
07 75	0554	022A	C8	6A	48	7C
07 76	0555	022B	C8	6B	48	2C
07 77	0556	022C	C8	6C	48	25
07 78	0557	022D	C8	6D	48	5F

Mod 1 <u>R C</u>	Mods 2,3,4 <u>R C</u>	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
07 79	0558	022E	C8	6E	48	3E
07 80	0559	022F	C8	6F	48	3F
08 01	0560	0230	C8	F0	48	30
08 02	0561	0231	C8	F1	48	31
08 03	0562	0232	C8	F2	48	32
08 04	0563	0233	C8	F3	48	33
08 05	0564	0234	C8	F4	48	34
08 06	0565	0235	C8	F5	48	35
08 07	0566	0236	C8	F6	48	36
08 08	0567	0237	C8	F7	48	37
08 09	0568	0238	C8	F8	48	38
08 10	0569	0239	C8	F9	48	39
08 11	0570	023A	C8	7A	48	3A
08 12	0571	023B	C8	7B	48	23
08 13	0572	023C	C8	7C	48	40
08 14	0573	023D	C8	7D	48	27
08 15	0574	023E	C8	7E	48	3D
08 16	0575	023F	C8	7F	48	22
08 17	0576	0240	C9	40	49	20
08 18	0577	0241	C9	C1	49	41
08 19	0578	0242	C9	C2	49	42
08 20	0579	0243	C9	C3	49	43
08 21	0580	0244	C9	C4	49	44
08 22	0581	0245	C9	C5	49	45
08 23	0582	0246	C9	C6	49	46
08 24	0583	0247	C9	C7	49	47
08 25	0584	0248	C9	C8	49	48
08 26	0585	0249	C9	C9	49	49
08 27	0586	024A	C9	4A	49	5B
08 28	0587	024B	C9	4B	49	2E
08 29	0588	024C	C9	4C	49	3C
08 30	0589	024D	C9	4D	49	28
08 31	0590	024E	C9	4E	49	2B
08 32	0591	024F	C9	4F	49	21
08 33	0592	0250	C9	50	49	26
08 34	0593	0251	C9	D1	49	4A
08 35	0594	0252	C9	D2	49	4B
08 36	0595	0253	C9	D3	49	4C
08 37	0596	0254	C9	D4	49	4D
08 38	0597	0255	C9	D5	49	4E
08 39	0598	0256	C9	D6	49	4F
08 40	0599	0257	C9	D7	49	50
08 41	0600	0258	C9	D8	49	51
08 42	0601	0259	C9	D9	49	52
08 43	0602	025A	C9	5A	49	5D
08 44	0603	025B	C9	5B	49	24
08 45	0604	025C	C9	5C	49	2A
08 46	0605	025D	C9	5D	49	29
08 47	0606	025E	C9	5E	49	3B
08 48	0607	025F	C9	5F	49	5E
08 49	0608	0260	C9	60	49	2D
08 50	0609	0261	C9	61	49	2F
08 51	0610	0262	C9	E2	49	53
08 52	0611	0263	C9	E3	49	54
08 53	0612	0264	C9	E4	49	55
08 54	0613	0265	C9	E5	49	56
08 55	0614	0266	C9	E6	49	57
08 56	0615	0267	C9	E7	49	58
08 57	0616	0268	C9	E8	49	59
08 58	0617	0269	C9	E9	49	5A
08 59	0618	026A	C9	6A	49	7C
08 60	0619	026B	C9	6B	49	2C

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
	08 61	0620	026C	C9	6C	49	25
	08 62	0621	026D	C9	6D	49	5F
	08 63	0622	026E	C9	6E	49	3E
	08 64	0623	026F	C9	6F	49	3F
	08 65	0624	0270	C9	F0	49	30
	08 66	0625	0271	C9	F1	49	31
	08 67	0626	0272	C9	F2	49	32
	08 68	0627	0273	C9	F3	49	33
	08 69	0628	0274	C9	F4	49	34
	08 70	0629	0275	C9	F5	49	35
	08 71	0630	0276	C9	F6	49	36
	08 72	0631	0277	C9	F7	49	37
	08 73	0632	0278	C9	F8	49	38
	08 74	0633	0279	C9	F9	49	39
	08 75	0634	027A	C9	7A	49	3A
	08 76	0635	027B	C9	7B	49	23
	08 77	0636	027C	C9	7C	49	40
	08 78	0637	027D	C9	7D	49	27
	08 79	0638	027E	C9	7E	49	3D
	08 80	0639	027F	C9	7F	49	22
09 01		0640	0280	4A	40	5B	20
09 02		0641	0281	4A	C1	5B	41
09 03		0642	0282	4A	C2	5B	42
09 04		0643	0283	4A	C3	5B	43
09 05		0644	0284	4A	C4	5B	44
09 06		0645	0285	4A	C5	5B	45
09 07		0646	0286	4A	C6	5B	46
09 08		0647	0287	4A	C7	5B	47
09 09		0648	0288	4A	C8	5B	48
09 10		0649	0289	4A	C9	5B	49
09 11		0650	028A	4A	4A	5B	5B
09 12		0651	028B	4A	4B	5B	2E
09 13		0652	028C	4A	4C	5B	3C
09 14		0653	028D	4A	4D	5B	28
09 15		0654	028E	4A	4E	5B	2B
09 16		0655	028F	4A	4F	5B	21
09 17		0656	0290	4A	50	5B	26
09 18		0657	0291	4A	D1	5B	4A
09 19		0658	0292	4A	D2	5B	4B
09 20		0659	0293	4A	D3	5B	4C
09 21		0660	0294	4A	D4	5B	4D
09 22		0661	0295	4A	D5	5B	4E
09 23		0662	0296	4A	D6	5B	4F
09 24		0663	0297	4A	D7	5B	50
09 25		0664	0298	4A	D8	5B	51
09 26		0665	0299	4A	D9	5B	52
09 27		0666	029A	4A	5A	5B	5D
09 28		0667	029B	4A	5B	5B	24
09 29		0668	029C	4A	5C	5B	2A
09 30		0669	029D	4A	5D	5B	29
09 31		0670	029E	4A	5E	5B	3B
09 32		0671	029F	4A	5F	5B	5E
09 33		0672	02A0	4A	60	5B	2D
09 34		0673	02A1	4A	61	5B	2F
09 35		0674	02A2	4A	E2	5B	53
09 36		0675	02A3	4A	E3	5B	54
09 37		0676	02A4	4A	E4	5B	55
09 38		0677	02A5	4A	E5	5B	56
09 39		0678	02A6	4A	E6	5B	57
09 40		0679	02A7	4A	E7	5B	58
09 41		0680	02A8	4A	E8	5B	59
09 42		0681	02A9	4A	E9	5B	5A

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
09 43	0682	02AA	4A	6A	5B	7C
09 44	0683	02AB	4A	6B	5B	2C
09 45	0684	02AC	4A	6C	5B	25
09 46	0685	02AD	4A	6D	5B	5F
09 47	0686	02AE	4A	6E	5B	3E
09 48	0687	02AF	4A	6F	5B	3F
09 49	0688	02B0	4A	F0	5B	30
09 50	0689	02B1	4A	F1	5B	31
09 51	0690	02B2	4A	F2	5B	32
09 52	0691	02B3	4A	F3	5B	33
09 53	0692	02B4	4A	F4	5B	34
09 54	0693	02B5	4A	F5	5B	35
09 55	0694	02B6	4A	F6	5B	36
09 56	0695	02B7	4A	F7	5B	37
09 57	0696	02B8	4A	F8	5B	38
09 58	0697	02B9	4A	F9	5B	39
09 59	0698	02BA	4A	7A	5B	3A
09 60	0699	02BB	4A	7B	5B	23
09 61	0700	02BC	4A	7C	5B	40
09 62	0701	02BD	4A	7D	5B	27
09 63	0702	02BE	4A	7E	5B	3D
09 64	0703	02BF	4A	7F	5B	22
09 65	0704	02C0	4B	40	2E	20
09 66	0705	02C1	4B	C1	2E	41
09 67	0706	02C2	4B	C2	2E	42
09 68	0707	02C3	4B	C3	2E	43
09 69	0708	02C4	4B	C4	2E	44
09 70	0709	02C5	4B	C5	2E	45
09 71	0710	02C6	4B	C6	2E	46
09 72	0711	02C7	4B	C7	2E	47
09 73	0712	02C8	4B	C8	2E	48
09 74	0713	02C9	4B	C9	2E	49
09 75	0714	02CA	4B	4A	2E	5B
09 76	0715	02CB	4B	4B	2E	2E
09 77	0716	02CC	4B	4C	2E	3C
09 78	0717	02CD	4B	4D	2E	28
09 79	0718	02CE	4B	4E	2E	2B
09 80	0719	02CF	4B	4F	2E	21
10 01	0720	02D0	4B	50	2E	26
10 02	0721	02D1	4B	D1	2E	4A
10 03	0722	02D2	4B	D2	2E	4B
10 04	0723	02D3	4B	D3	2E	4C
10 05	0724	02D4	4B	D4	2E	4D
10 06	0725	02D5	4B	D5	2E	4E
10 07	0726	02D6	4B	D6	2E	4F
10 08	0727	02D7	4B	D7	2E	50
10 09	0728	02D8	4B	D8	2E	51
10 10	0729	02D9	4B	D9	2E	52
10 11	0730	02DA	4B	5A	2E	5D
10 12	0731	02DB	4B	5B	2E	24
10 13	0732	02DC	4B	5C	2E	2A
10 14	0733	02DD	4B	5D	2E	29
10 15	0734	02DE	4B	5E	2E	3B
10 16	0735	02DF	4B	5F	2E	5E
10 17	0736	02E0	4B	60	2E	2D
10 18	0737	02E1	4B	61	2E	2F
10 19	0738	02E2	4B	E2	2E	53
10 20	0739	02E3	4B	E3	2E	54
10 21	0740	02E4	4B	E4	2E	55
10 22	0741	02E5	4B	E5	2E	56
10 23	0742	02E6	4B	E6	2E	57
10 24	0743	02E7	4B	E7	2E	58

Mod 1 R C	Mods 2,3,4 R C	Position Dec Hex	Buffer Address (Hex)					
			EBCDIC		ASCII			
		10 25	0744	02E8	4B	E8	2E	59
		10 26	0745	02E9	4B	E9	2E	5A
		10 27	0746	02EA	4B	6A	2E	7C
		10 28	0747	02EB	4B	6B	2E	2C
		10 29	0748	02EC	4B	6C	2E	25
		10 30	0749	02ED	4B	6D	2E	5F
		10 31	0750	02EE	4B	6E	2E	3E
		10 32	0751	02EF	4B	6F	2E	3F
		10 33	0752	02F0	4B	F0	2E	30
		10 34	0753	02F1	4B	F1	2E	31
		10 35	0754	02F2	4B	F2	2E	32
		10 36	0755	02F3	4B	F3	2E	33
		10 37	0756	02F4	4B	F4	2E	34
		10 38	0757	02F5	4B	F5	2E	35
		10 39	0758	02F6	4B	F6	2E	36
		10 40	0759	02F7	4B	F7	2E	37
		10 41	0760	02F8	4B	F8	2E	38
		10 42	0761	02F9	4B	F9	2E	39
		10 43	0762	02FA	4B	7A	2E	3A
		10 44	0763	02FB	4B	7B	2E	23
		10 45	0764	02FC	4B	7C	2E	40
		10 46	0765	02FD	4B	7D	2E	27
		10 47	0766	02FE	4B	7E	2E	3D
		10 48	0767	02FF	4B	7F	2E	22
		10 49	0768	0300	4C	40	3C	20
		10 50	0769	0301	4C	C1	3C	41
		10 51	0770	0302	4C	C2	3C	42
		10 52	0771	0303	4C	C3	3C	43
		10 53	0772	0304	4C	C4	3C	44
		10 54	0773	0305	4C	C5	3C	45
		10 55	0774	0306	4C	C6	3C	46
		10 56	0775	0307	4C	C7	3C	47
		10 57	0776	0308	4C	C8	3C	48
		10 58	0777	0309	4C	C9	3C	49
		10 59	0778	030A	4C	4A	3C	5B
		10 60	0779	030B	4C	4B	3C	2E
		10 61	0780	030C	4C	4C	3C	3C
		10 62	0781	030D	4C	4D	3C	28
		10 63	0782	030E	4C	4E	3C	2B
		10 64	0783	030F	4C	4F	3C	21
		10 65	0784	0310	4C	50	3C	26
		10 66	0785	0311	4C	D1	3C	4A
		10 67	0786	0312	4C	D2	3C	4B
		10 68	0787	0313	4C	D3	3C	4C
		10 69	0788	0314	4C	D4	3C	4D
		10 70	0789	0315	4C	D5	3C	4E
		10 71	0790	0316	4C	D6	3C	4F
		10 72	0791	0317	4C	D7	3C	50
		10 73	0792	0318	4C	D8	3C	51
		10 74	0793	0319	4C	D9	3C	52
		10 75	0794	031A	4C	5A	3C	5D
		10 76	0795	031B	4C	5B	3C	24
		10 77	0796	031C	4C	5C	3C	2A
		10 78	0797	031D	4C	5D	3C	29
		10 79	0798	031E	4C	5E	3C	3B
		10 80	0799	031F	4C	5F	3C	5E
		11 01	0800	0320	4C	60	3C	2D
		11 02	0801	0321	4C	61	3C	2F
		11 03	0802	0322	4C	E2	3C	53
		11 04	0803	0323	4C	E3	3C	54
		11 05	0804	0324	4C	E4	3C	55
		11 06	0805	0325	4C	E5	3C	56

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
11 07		0806	0326	4C	E6	3C
11 08		0807	0327	4C	E7	3C
11 09		0808	0328	4C	E8	3C
11 10		0809	0329	4C	E9	3C
11 11		0810	032A	4C	6A	3C
11 12		0811	032B	4C	6B	3C
11 13		0812	032C	4C	6C	3C
11 14		0813	032D	4C	6D	3C
11 15		0814	032E	4C	6E	3C
11 16		0815	032F	4C	6F	3C
11 17		0816	0330	4C	F0	3C
11 18		0817	0331	4C	F1	3C
11 19		0818	0332	4C	F2	3C
11 20		0819	0333	4C	F3	3C
11 21		0820	0334	4C	F4	3C
11 22		0821	0335	4C	F5	3C
11 23		0822	0336	4C	F6	3C
11 24		0823	0337	4C	F7	3C
11 25		0824	0338	4C	F8	3C
11 26		0825	0339	4C	F9	3C
11 27		0826	033A	4C	7A	3C
11 28		0827	033B	4C	7B	3C
11 29		0828	033C	4C	7C	3C
11 30		0829	033D	4C	7D	3C
11 31		0830	033E	4C	7E	3C
11 32		0831	033F	4C	7F	3C
11 33		0832	0340	4D	40	28
11 34		0833	0341	4D	C1	28
11 35		0834	0342	4D	C2	28
11 36		0835	0343	4D	C3	28
11 37		0836	0344	4D	C4	28
11 38		0837	0345	4D	C5	28
11 39		0838	0346	4D	C6	28
11 40		0839	0347	4D	C7	28
11 41		0840	0348	4D	C8	28
11 42		0841	0349	4D	C9	28
11 43		0842	034A	4D	4A	28
11 44		0843	034B	4D	4B	28
11 45		0844	034C	4D	4C	28
11 46		0845	034D	4D	4D	28
11 47		0846	034E	4D	4E	28
11 48		0847	034F	4D	4F	28
11 49		0848	0350	4D	50	28
11 50		0849	0351	4D	D1	28
11 51		0850	0352	4D	D2	28
11 52		0851	0353	4D	D3	28
11 53		0852	0354	4D	D4	28
11 54		0853	0355	4D	D5	28
11 55		0854	0356	4D	D6	28
11 56		0855	0357	4D	D7	28
11 57		0856	0358	4D	D8	28
11 58		0857	0359	4D	D9	28
11 59		0858	035A	4D	5A	28
11 60		0859	035B	4D	5B	28
11 61		0860	035C	4D	5C	28
11 62		0861	035D	4D	5D	28
11 63		0862	035E	4D	5E	28
11 64		0863	035F	4D	5F	28
11 65		0864	0360	4D	60	28
11 66		0865	0361	4D	61	28
11 67		0866	0362	4D	E2	28
11 68		0867	0363	4D	E3	28

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
11 69	0868	0364	4D	E4	28	55
11 70	0869	0365	4D	E5	28	56
11 71	0870	0366	4D	E6	28	57
11 72	0871	0367	4D	E7	28	58
11 73	0872	0368	4D	E8	28	59
11 74	0873	0369	4D	E9	28	5A
11 75	0874	036A	4D	6A	28	7C
11 76	0875	036B	4D	6B	28	2C
11 77	0876	036C	4D	6C	28	25
11 78	0877	036D	4D	6D	28	5F
11 79	0878	036E	4D	6E	28	3E
11 80	0879	036F	4D	6F	28	3F
12 01	0880	0370	4D	F0	28	30
12 02	0881	0371	4D	F1	28	31
12 03	0882	0372	4D	F2	28	32
12 04	0883	0373	4D	F3	28	33
12 05	0884	0374	4D	F4	28	34
12 06	0885	0375	4D	F5	28	35
12 07	0886	0376	4D	F6	28	36
12 08	0887	0377	4D	F7	28	37
12 09	0888	0378	4D	F8	28	38
12 10	0889	0379	4D	F9	28	39
12 11	0890	037A	4D	7A	28	3A
12 12	0891	037B	4D	7B	28	23
12 13	0892	037C	4D	7C	28	40
12 14	0893	037D	4D	7D	28	27
12 15	0894	037E	4D	7E	28	3D
12 16	0895	037F	4D	7F	28	22
12 17	0896	0380	4E	40	2B	20
12 18	0897	0381	4E	C1	2B	41
12 19	0898	0382	4E	C2	2B	42
12 20	0899	0383	4E	C3	2B	43
12 21	0900	0384	4E	C4	2B	44
12 22	0901	0385	4E	C5	2B	45
12 23	0902	0386	4E	C6	2B	46
12 24	0903	0387	4E	C7	2B	47
12 25	0904	0388	4E	C8	2B	48
12 26	0905	0389	4E	C9	2B	49
12 27	0906	038A	4E	4A	2B	5B
12 28	0907	038B	4E	4B	2B	2E
12 29	0908	038C	4E	4C	2B	3C
12 30	0909	038D	4E	4D	2B	28
12 31	0910	038E	4E	4E	2B	2B
12 32	0911	038F	4E	4F	2B	21
12 33	0912	0390	4E	50	2B	26
12 34	0913	0391	4E	D1	2B	4A
12 35	0914	0392	4E	D2	2B	4B
12 36	0915	0393	4E	D3	2B	4C
12 37	0916	0394	4E	D4	2B	4D
12 38	0917	0395	4E	D5	2B	4E
12 39	0918	0396	4E	D6	2B	4F
12 40	0919	0397	4E	D7	2B	50
12 41	0920	0398	4E	D8	2B	51
12 42	0921	0399	4E	D9	2B	52
12 43	0922	039A	4E	5A	2B	5D
12 44	0923	039B	4E	5B	2B	24
12 45	0924	039C	4E	5C	2B	2A
12 46	0925	039D	4E	5D	2B	29
12 47	0926	039E	4E	5E	2B	3B
12 48	0927	039F	4E	5F	2B	5E
12 49	0928	03A0	4E	60	2B	2D
12 50	0929	03A1	4E	61	2B	2F

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
12 51	0930	03A2	4E	E2	2B	53
12 52	0931	03A3	4E	E3	2B	54
12 53	0932	03A4	4E	E4	2B	55
12 54	0933	03A5	4E	E5	2B	56
12 55	0934	03A6	4E	E6	2B	57
12 56	0935	03A7	4E	E7	2B	58
12 57	0936	03A8	4E	E8	2B	59
12 58	0937	03A9	4E	E9	2B	5A
12 59	0938	03AA	4E	6A	2B	7C
12 60	0939	03AB	4E	6B	2B	2C
12 61	0940	03AC	4E	6C	2B	25
12 62	0941	03AD	4E	6D	2B	5F
12 63	0942	03AE	4E	6E	2B	3E
12 64	0943	03AF	4E	6F	2B	3F
12 65	0944	03B0	4E	F0	2B	30
12 66	0945	03B1	4E	F1	2B	31
12 67	0946	03B2	4E	F2	2B	32
12 68	0947	03B3	4E	F3	2B	33
12 69	0948	03B4	4E	F4	2B	34
12 70	0949	03B5	4E	F5	2B	35
12 71	0950	03B6	4E	F6	2B	36
12 72	0951	03B7	4E	F7	2B	37
12 73	0952	03B8	4E	F8	2B	38
12 74	0953	03B9	4E	F9	2B	39
12 75	0954	03BA	4E	7A	2B	3A
12 76	0955	03BB	4E	7B	2B	23
12 77	0956	03BC	4E	7C	2B	40
12 78	0957	03BD	4E	7D	2B	27
12 79	0958	03BE	4E	7E	2B	3D
12 80	0959	03BF	4E	7F	2B	22
13 01	0960	03C0	4F	40	21	20
13 02	0961	03C1	4F	C1	21	41
13 03	0962	03C2	4F	C2	21	42
13 04	0963	03C3	4F	C3	21	43
13 05	0964	03C4	4F	C4	21	44
13 06	0965	03C5	4F	C5	21	45
13 07	0966	03C6	4F	C6	21	46
13 08	0967	03C7	4F	C7	21	47
13 09	0968	03C8	4F	C8	21	48
13 10	0969	03C9	4F	C9	21	49
13 11	0970	03CA	4F	4A	21	5B
13 12	0971	03CB	4F	4B	21	2E
13 13	0972	03CC	4F	4C	21	3C
13 14	0973	03CD	4F	4D	21	28
13 15	0974	03CE	4F	4E	21	2B
13 16	0975	03CF	4F	4F	21	21
13 17	0976	03D0	4F	50	21	26
13 18	0977	03D1	4F	D1	21	4A
13 19	0978	03D2	4F	D2	21	4B
13 20	0979	03D3	4F	D3	21	4C
13 21	0980	03D4	4F	D4	21	4D
13 22	0981	03D5	4F	D5	21	4E
13 23	0982	03D6	4F	D6	21	4F
13 24	0983	03D7	4F	D7	21	50
13 25	0984	03D8	4F	D8	21	51
13 26	0985	03D9	4F	D9	21	52
13 27	0986	03DA	4F	5A	21	5D
13 28	0987	03DB	4F	5B	21	24
13 29	0988	03DC	4F	5C	21	2A
13 30	0989	03DD	4F	5D	21	29
13 31	0990	03DE	4F	5E	21	3B
13 32	0991	03DF	4F	5F	21	5E

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
13 33	0992	03E0	4F	60	21	2D
13 34	0993	03E1	4F	61	21	2F
13 35	0994	03E2	4F	E2	21	53
13 36	0995	03E3	4F	E3	21	54
13 37	0996	03E4	4F	E4	21	55
13 38	0997	03E5	4F	E5	21	56
13 39	0998	03E6	4F	E6	21	57
13 40	0999	03E7	4F	E7	21	58
13 41	1000	03E8	4F	E8	21	59
13 42	1001	03E9	4F	E9	21	5A
13 43	1002	03EA	4F	6A	21	7C
13 44	1003	03EB	4F	6B	21	2C
13 45	1004	03EC	4F	6C	21	25
13 46	1005	03ED	4F	6D	21	5F
13 47	1006	03EE	4F	6E	21	3E
13 48	1007	03EF	4F	6F	21	3F
13 49	1008	03FO	4F	F0	21	30
13 50	1009	03F1	4F	F1	21	31
13 51	1010	03F2	4F	F2	21	32
13 52	1011	03F3	4F	F3	21	33
13 53	1012	03F4	4F	F4	21	34
13 54	1013	03F5	4F	F5	21	35
13 55	1014	03F6	4F	F6	21	36
13 56	1015	03F7	4F	F7	21	37
13 57	1016	03F8	4F	F8	21	38
13 58	1017	03F9	4F	F9	21	39
13 59	1018	03FA	4F	7A	21	3A
13 60	1019	03FB	4F	7B	21	23
13 61	1020	03FC	4F	7C	21	40
13 62	1021	03FD	4F	7D	21	27
13 63	1022	03FE	4F	7E	21	3D
13 64	1023	03FF	4F	7F	21	22
13 65	1024	0400	50	40	26	20
13 66	1025	0401	50	C1	26	41
13 67	1026	0402	50	C2	26	42
13 68	1027	0403	50	C3	26	43
13 69	1028	0404	50	C4	26	44
13 70	1029	0405	50	C5	26	45
13 71	1030	0406	50	C6	26	46
13 72	1031	0407	50	C7	26	47
13 73	1032	0408	50	C8	26	48
13 74	1033	0409	50	C9	26	49
13 75	1034	040A	50	4A	26	5B
13 76	1035	040B	50	4B	26	2E
13 77	1036	040C	50	4C	26	3C
13 78	1037	040D	50	4D	26	28
13 79	1038	040E	50	4E	26	2B
13 80	1039	040F	50	4F	26	21
14 01	1040	0410	50	50	26	26
14 02	1041	0411	50	D1	26	4A
14 03	1042	0412	50	D2	26	4B
14 04	1043	0413	50	D3	26	4C
14 05	1044	0414	50	D4	26	4D
14 06	1045	0415	50	D5	26	4E
14 07	1046	0416	50	D6	26	4F
14 08	1047	0417	50	D7	26	50
14 09	1048	0418	50	D8	26	51
14 10	1049	0419	50	D9	26	52
14 11	1050	041A	50	5A	26	5D
14 12	1051	041B	50	5B	26	24
14 13	1052	041C	50	5C	26	2A
14 14	1053	041D	50	5D	26	29

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
14 15	1054	041E	50	5E	26	3B
14 16	1055	041F	50	5F	26	5E
14 17	1056	0420	50	60	26	2D
14 18	1057	0421	50	61	26	2F
14 19	1058	0422	50	E2	26	53
14 20	1059	0423	50	E3	26	54
14 21	1060	0424	50	E4	26	55
14 22	1061	0425	50	E5	26	56
14 23	1062	0426	50	E6	26	57
14 24	1063	0427	50	E7	26	58
14 25	1064	0428	50	E8	26	59
14 26	1065	0429	50	E9	26	5A
14 27	1066	042A	50	6A	26	7C
14 28	1067	042B	50	6B	26	2C
14 29	1068	042C	50	6C	26	25
14 30	1069	042D	50	6D	26	5F
14 31	1070	042E	50	6E	26	3E
14 32	1071	042F	50	6F	26	3F
14 33	1072	0430	50	F0	26	30
14 34	1073	0431	50	F1	26	31
14 35	1074	0432	50	F2	26	32
14 36	1075	0433	50	F3	26	33
14 37	1076	0434	50	F4	26	34
14 38	1077	0435	50	F5	26	35
14 39	1078	0436	50	F6	26	36
14 40	1079	0437	50	F7	26	37
14 41	1080	0438	50	F8	26	38
14 42	1081	0439	50	F9	26	39
14 43	1082	043A	50	7A	26	3A
14 44	1083	043B	50	7B	26	23
14 45	1084	043C	50	7C	26	40
14 46	1085	043D	50	7D	26	27
14 47	1086	043E	50	7E	26	3D
14 48	1087	043F	50	7F	26	22
14 49	1088	0440	D1	40	4A	20
14 50	1089	0441	D1	C1	4A	41
14 51	1090	0442	D1	C2	4A	42
14 52	1091	0443	D1	C3	4A	43
14 53	1092	0444	D1	C4	4A	44
14 54	1093	0445	D1	C5	4A	45
14 55	1094	0446	D1	C6	4A	46
14 56	1095	0447	D1	C7	4A	47
14 57	1096	0448	D1	C8	4A	48
14 58	1097	0449	D1	C9	4A	49
14 59	1098	044A	D1	4A	4A	58
14 60	1099	044B	D1	4B	4A	2E
14 61	1100	044C	D1	4C	4A	3C
14 62	1101	044D	D1	4D	4A	28
14 63	1102	044E	D1	4E	4A	2B
14 64	1103	044F	D1	4F	4A	21
14 65	1104	0450	D1	50	4A	26
14 66	1105	0451	D1	D1	4A	4A
14 67	1106	0452	D1	D2	4A	4B
14 68	1107	0453	D1	D3	4A	4C
14 69	1108	0454	D1	D4	4A	4D
14 70	1109	0455	D1	D5	4A	4E
14 71	1110	0456	D1	D6	4A	4F
14 72	1111	0457	D1	D7	4A	50
14 73	1112	0458	D1	D8	4A	51
14 74	1113	0459	D1	D9	4A	52
14 75	1114	045A	D1	5A	4A	5D
14 76	1115	045B	D1	5B	4A	24

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
	14 77	1116	045C	D1	5C	4A
	14 78	1117	045D	D1	5D	4A
	14 79	1118	045E	D1	5E	4A
	14 80	1119	045F	D1	5F	4A
	15 01	1120	0460	D1	60	4A
	15 02	1121	0461	D1	61	4A
	15 03	1122	0462	D1	E2	4A
	15 04	1123	0463	D1	E3	4A
	15 05	1124	0464	D1	E4	4A
	15 06	1125	0465	D1	E5	4A
	15 07	1126	0466	D1	E6	4A
	15 08	1127	0467	D1	E7	4A
	15 09	1128	0468	D1	E8	4A
	15 10	1129	0469	D1	E9	4A
	15 11	1130	046A	D1	6A	4A
	15 12	1131	046B	D1	6B	4A
	15 13	1132	046C	D1	6C	4A
	15 14	1133	046D	D1	6D	4A
	15 15	1134	046E	D1	6E	4A
	15 16	1135	046F	D1	6F	4A
	15 17	1136	0470	D1	F0	4A
	15 18	1137	0471	D1	F1	4A
	15 19	1138	0472	D1	F2	4A
	15 20	1139	0473	D1	F3	4A
	15 21	1140	0474	D1	F4	4A
	15 22	1141	0475	D1	F5	4A
	15 23	1142	0476	D1	F6	4A
	15 24	1143	0477	D1	F7	4A
	15 25	1144	0478	D1	F8	4A
	15 26	1145	0479	D1	F9	4A
	15 27	1146	047A	D1	7A	4A
	15 28	1147	047B	D1	7B	4A
	15 29	1148	047C	D1	7C	4A
	15 30	1149	047D	D1	7D	4A
	15 31	1150	047E	D1	7E	4A
	15 32	1151	047F	D1	7F	4A
	15 33	1152	0480	D2	40	4B
	15 34	1153	0481	D2	C1	4B
	15 35	1154	0482	D2	C2	4B
	15 36	1155	0483	D2	C3	4B
	15 37	1156	0484	D2	C4	4B
	15 38	1157	0485	D2	C5	4B
	15 39	1158	0486	D2	C6	4B
	15 40	1159	0487	D2	C7	4B
	15 41	1160	0488	D2	C8	4B
	15 42	1161	0489	D2	C9	4B
	15 43	1162	048A	D2	4A	4B
	15 44	1163	048B	D2	4B	4B
	15 45	1164	048C	D2	4C	4B
	15 46	1165	048D	D2	4D	4B
	15 47	1166	048E	D2	4E	4B
	15 48	1167	048F	D2	4F	4B
	15 49	1168	0490	D2	50	4B
	15 50	1169	0491	D2	D1	4B
	15 51	1170	0492	D2	D2	4B
	15 52	1171	0493	D2	D3	4B
	15 53	1172	0494	D2	D4	4B
	15 54	1173	0495	D2	D5	4B
	15 55	1174	0496	D2	D6	4B
	15 56	1175	0497	D2	D7	4B
	15 57	1176	0498	D2	D8	4B
	15 58	1177	0499	D2	D9	4B

Mod 1 <u>R C</u>	Mods 2,3,4 <u>R C</u>	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
15 59	1178	049A	D2	5A	4B	5D
15 60	1179	049B	D2	5B	4B	24
15 61	1180	049C	D2	5C	4B	2A
15 62	1181	049D	D2	5D	4B	29
15 63	1182	049E	D2	5E	4B	3B
15 64	1183	049F	D2	5F	4B	5E
15 65	1184	04A0	D2	60	4B	2D
15 66	1185	04A1	D2	61	4B	2F
15 67	1186	04A2	D2	E2	4B	53
15 68	1187	04A3	D2	E3	4B	54
15 69	1188	04A4	D2	E4	4B	55
15 70	1189	04A5	D2	E5	4B	56
15 71	1190	04A6	D2	E6	4B	57
15 72	1191	04A7	D2	E7	4B	58
15 73	1192	04A8	D2	E8	4B	59
15 74	1193	04A9	D2	E9	4B	5A
15 75	1194	04AA	D2	6A	4B	7C
15 76	1195	04AB	D2	6B	4B	2C
15 77	1196	04AC	D2	6C	4B	25
15 78	1197	04AD	D2	6D	4B	5F
15 79	1198	04AE	D2	6E	4B	3E
15 80	1199	04AF	D2	6F	4B	3F
16 01	1200	04B0	D2	F0	4B	30
16 02	1201	04B1	D2	F1	4B	31
16 03	1202	04B2	D2	F2	4B	32
16 04	1203	04B3	D2	F3	4B	33
16 05	1204	04B4	D2	F4	4B	34
16 06	1205	04B5	D2	F5	4B	35
16 07	1206	04B6	D2	F6	4B	36
16 08	1207	04B7	D2	F7	4B	37
16 09	1208	04B8	D2	F8	4B	38
16 10	1209	04B9	D2	F9	4B	39
16 11	1210	04BA	D2	7A	4B	3A
16 12	1211	04BB	D2	7B	4B	23
16 13	1212	04BC	D2	7C	4B	40
16 14	1213	04BD	D2	7D	4B	27
16 15	1214	04BE	D2	7E	4B	3D
16 16	1215	04BF	D2	7F	4B	22
16 17	1216	04C0	D3	40	4C	20
16 18	1217	04C1	D3	C1	4C	41
16 19	1218	04C2	D3	C2	4C	42
16 20	1219	04C3	D3	C3	4C	43
16 21	1220	04C4	D3	C4	4C	44
16 22	1221	04C5	D3	C5	4C	45
16 23	1222	04C6	D3	C6	4C	46
16 24	1223	04C7	D3	C7	4C	47
16 25	1224	04C8	D3	C8	4C	48
16 26	1225	04C9	D3	C9	4C	49
16 27	1226	04CA	D3	4A	4C	5B
16 28	1227	04CB	D3	4B	4C	2E
16 29	1228	04CC	D3	4C	4C	3C
16 30	1229	04CD	D3	4D	4C	28
16 31	1230	04CE	D3	4E	4C	2B
16 32	1231	04CF	D3	4F	4C	21
16 33	1232	04D0	D3	50	4C	26
16 34	1233	04D1	D3	D1	4C	4A
16 35	1234	04D2	D3	D2	4C	4B
16 36	1235	04D3	D3	D3	4C	4C
16 37	1236	04D4	D3	D4	4C	4D
16 38	1237	04D5	D3	D5	4C	4E
16 39	1238	04D6	D3	D6	4C	4F
16 40	1239	04D7	D3	D7	4C	50

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
16 41	1240	04D8	D3	D8	4C	51
16 42	1241	04D9	D3	D9	4C	52
16 43	1242	04DA	D3	5A	4C	5D
16 44	1243	04DB	D3	5B	4C	24
16 45	1244	04DC	D3	5C	4C	2A
16 46	1245	04DD	D3	5D	4C	29
16 47	1246	04DE	D3	5E	4C	3B
16 48	1247	04DF	D3	5F	4C	5E
16 49	1248	04E0	D3	60	4C	2D
16 50	1249	04E1	D3	61	4C	2F
16 51	1250	04E2	D3	E2	4C	53
16 52	1251	04E3	D3	E3	4C	54
16 53	1252	04E4	D3	E4	4C	55
16 54	1253	04E5	D3	E5	4C	56
16 55	1254	04E6	D3	E6	4C	57
16 56	1255	04E7	D3	E7	4C	58
16 57	1256	04E8	D3	E8	4C	59
16 58	1257	04E9	D3	E9	4C	5A
16 59	1258	04EA	D3	6A	4C	7C
16 60	1259	04EB	D3	6B	4C	2C
16 61	1260	04EC	D3	6C	4C	25
16 62	1261	04ED	D3	6D	4C	5F
16 63	1262	04EE	D3	6E	4C	3E
16 64	1263	04EF	D3	6F	4C	3F
16 65	1264	04F0	D3	F0	4C	30
16 66	1265	04F1	D3	F1	4C	31
16 67	1266	04F2	D3	F2	4C	32
16 68	1267	04F3	D3	F3	4C	33
16 69	1268	04F4	D3	F4	4C	34
16 70	1269	04F5	D3	F5	4C	35
16 71	1270	04F6	D3	F6	4C	36
16 72	1271	04F7	D3	F7	4C	37
16 73	1272	04F8	D3	F8	4C	38
16 74	1273	04F9	D3	F9	4C	39
16 75	1274	04FA	D3	7A	4C	3A
16 76	1275	04FB	D3	7B	4C	23
16 77	1276	04FC	D3	7C	4C	40
16 78	1277	04FD	D3	7D	4C	27
16 79	1278	04FE	D3	7E	4C	3D
16 80	1279	04FF	D3	7F	4C	22
17 01	1280	0500	D4	40	4D	20
17 02	1281	0501	D4	C1	4D	41
17 03	1282	0502	D4	C2	4D	42
17 04	1283	0503	D4	C3	4D	43
17 05	1284	0504	D4	C4	4D	44
17 06	1285	0505	D4	C5	4D	45
17 07	1286	0506	D4	C6	4D	46
17 08	1287	0507	D4	C7	4D	47
17 09	1288	0508	D4	C8	4D	48
17 10	1289	0509	D4	C9	4D	49
17 11	1290	050A	D4	4A	4D	5B
17 12	1291	050B	D4	4B	4D	2E
17 13	1292	050C	D4	4C	4D	3C
17 14	1293	050D	D4	4D	4D	28
17 15	1294	050E	D4	4E	4D	2B
17 16	1295	050F	D4	4F	4D	21
17 17	1296	0510	D4	50	4D	26
17 18	1297	0511	D4	D1	4D	4A
17 19	1298	0512	D4	D2	4D	4B
17 20	1299	0513	D4	D3	4D	4C
17 21	1300	0514	D4	D4	4D	4D
17 22	1301	0515	D4	D5	4D	4E

Mod 1 R C	Mods 2,3,4 R C	Position Dec Hex	Buffer Address (Hex)			
			EBCDIC	ASCII		
17 23		1302 0516	D4	D6	4D	4F
17 24		1303 0517	D4	D7	4D	50
17 25		1304 0518	D4	D8	4D	51
17 26		1305 0519	D4	D9	4D	52
17 27		1306 051A	D4	5A	4D	5D
17 28		1307 051B	D4	5B	4D	24
17 29		1308 051C	D4	5C	4D	2A
17 30		1309 051D	D4	5D	4D	29
17 31		1310 051E	D4	5E	4D	3B
17 32		1311 051F	D4	5F	4D	5E
17 33		1312 0520	D4	60	4D	2D
17 34		1313 0521	D4	61	4D	2F
17 35		1314 0522	D4	E2	4D	53
17 36		1315 0523	D4	E3	4D	54
17 37		1316 0524	D4	E4	4D	55
17 38		1317 0525	D4	E5	4D	56
17 39		1318 0526	D4	E6	4D	57
17 40		1319 0527	D4	E7	4D	58
17 41		1320 0528	D4	E8	4D	59
17 42		1321 0529	D4	E9	4D	5A
17 43		1322 052A	D4	6A	4D	7C
17 44		1323 052B	D4	6B	4D	2C
17 45		1324 052C	D4	6C	4D	25
17 46		1325 052D	D4	6D	4D	5F
17 47		1326 052E	D4	6E	4D	3E
17 48		1327 052F	D4	6F	4D	3F
17 49		1328 0530	D4	F0	4D	30
17 50		1329 0531	D4	F1	4D	31
17 51		1330 0532	D4	F2	4D	32
17 52		1331 0533	D4	F3	4D	33
17 53		1332 0534	D4	F4	4D	34
17 54		1333 0535	D4	F5	4D	35
17 55		1334 0536	D4	F6	4D	36
17 56		1335 0537	D4	F7	4D	37
17 57		1336 0538	D4	F8	4D	38
17 58		1337 0539	D4	F9	4D	39
17 59		1338 053A	D4	7A	4D	3A
17 60		1339 053B	D4	7B	4D	23
17 61		1340 053C	D4	7C	4D	40
17 62		1341 053D	D4	7D	4D	27
17 63		1342 053E	D4	7E	4D	3D
17 64		1343 053F	D4	7F	4D	22
17 65		1344 0540	D5	40	4E	20
17 66		1345 0541	D5	C1	4E	41
17 67		1346 0542	D5	C2	4E	42
17 68		1347 0543	D5	C3	4E	43
17 69		1348 0544	D5	C4	4E	44
17 70		1349 0545	D5	C5	4E	45
17 71		1350 0546	D5	C6	4E	46
17 72		1351 0547	D5	C7	4E	47
17 73		1352 0548	D5	C8	4E	48
17 74		1353 0549	D5	C9	4E	49
17 75		1354 054A	D5	4A	4E	5B
17 76		1355 054B	D5	4B	4E	2E
17 77		1356 054C	D5	4C	4E	3C
17 78		1357 054D	D5	4D	4E	28
17 79		1358 054E	D5	4E	4E	2B
17 80		1359 054F	D5	4F	4E	21
18 01		1360 0550	D5	50	4E	26
18 02		1361 0551	D5	D1	4E	4A
18 03		1362 0552	D5	D2	4E	4B
18 04		1363 0553	D5	D3	4E	4C

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
	18 05	1364	0554	D5	D4	4E
	18 06	1365	0555	D5	D5	4E
	18 07	1366	0556	D5	D6	4E
	18 08	1367	0557	D5	D7	4E
	18 09	1368	0558	D5	D8	4E
	18 10	1369	0559	D5	D9	4E
	18 11	1370	055A	D5	5A	4E
	18 12	1371	055B	D5	5B	4E
	18 13	1372	055C	D5	5C	4E
	18 14	1373	055D	D5	5D	4E
	18 15	1374	055E	D5	5E	4E
	18 16	1375	055F	D5	5F	4E
	18 17	1376	0560	D5	60	4E
	18 18	1377	0561	D5	61	4E
	18 19	1378	0562	D5	E2	4E
	18 20	1379	0563	D5	E3	4E
	18 21	1380	0564	D5	E4	4E
	18 22	1381	0565	D5	E5	4E
	18 23	1382	0566	D5	E6	4E
	18 24	1383	0567	D5	E7	4E
	18 25	1384	0568	D5	E8	4E
	18 26	1385	0569	D5	E9	4E
	18 27	1386	056A	D5	6A	4E
	18 28	1387	056B	D5	6B	4E
	18 29	1388	056C	D5	6C	4E
	18 30	1389	056D	D5	6D	4E
	18 31	1390	056E	D5	6E	4E
	18 32	1391	056F	D5	6F	4E
	18 33	1392	0570	D5	F0	4E
	18 34	1393	0571	D5	F1	4E
	18 35	1394	0572	D5	F2	4E
	18 36	1395	0573	D5	F3	4E
	18 37	1396	0574	D5	F4	4E
	18 38	1397	0575	D5	F5	4E
	18 39	1398	0576	D5	F6	4E
	18 40	1399	0577	D5	F7	4E
	18 41	1400	0578	D5	F8	4E
	18 42	1401	0579	D5	F9	4E
	18 43	1402	057A	D5	7A	4E
	18 44	1403	057B	D5	7B	4E
	18 45	1404	057C	D5	7C	4E
	18 46	1405	057D	D5	7D	4E
	18 47	1406	057E	D5	7E	4E
	18 48	1407	057F	D5	7F	4E
	18 49	1408	0580	D6	40	4F
	18 50	1409	0581	D6	C1	4F
	18 51	1410	0582	D6	C2	4F
	18 52	1411	0583	D6	C3	4F
	18 53	1412	0584	D6	C4	4F
	18 54	1413	0585	D6	C5	4F
	18 55	1414	0586	D6	C6	4F
	18 56	1415	0587	D6	C7	4F
	18 57	1416	0588	D6	C8	4F
	18 58	1417	0589	D6	C9	4F
	18 59	1418	058A	D6	4A	4F
	18 60	1419	058B	D6	4B	4F
	18 61	1420	058C	D6	4C	4F
	18 62	1421	058D	D6	4D	4F
	18 63	1422	058E	D6	4E	4F
	18 64	1423	058F	D6	4F	4F
	18 65	1424	0590	D6	50	4F
	18 66	1425	0591	D6	D1	4F

Mod 1 R C	Mods 2,3,4	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
18 67	1426	0592	D6	D2	4F	4B
18 68	1427	0593	D6	D3	4F	4C
18 69	1428	0594	D6	D4	4F	4D
18 70	1429	0595	D6	D5	4F	4E
18 71	1430	0596	D6	D6	4F	4F
18 72	1431	0597	D6	D7	4F	50
18 73	1432	0598	D6	D8	4F	51
18 74	1433	0599	D6	D9	4F	52
18 75	1434	059A	D6	5A	4F	5D
18 76	1435	059B	D6	5B	4F	24
18 77	1436	059C	D6	5C	4F	2A
18 78	1437	059D	D6	5D	4F	29
18 79	1438	059E	D6	5E	4F	3B
18 80	1439	059F	D6	5F	4F	5E
19 01	1440	05A0	D6	60	4F	2D
19 02	1441	05A1	D6	61	4F	2F
19 03	1442	05A2	D6	E2	4F	53
19 04	1443	05A3	D6	E3	4F	54
19 05	1444	05A4	D6	E4	4F	55
19 06	1445	05A5	D6	E5	4F	56
19 07	1446	05A6	D6	E6	4F	57
19 08	1447	05A7	D6	E7	4F	58
19 09	1448	05A8	D6	E8	4F	59
19 10	1449	05A9	D6	E9	4F	5A
19 11	1450	05AA	D6	6A	4F	7C
19 12	1451	05AB	D6	6B	4F	2C
19 13	1452	05AC	D6	6C	4F	25
19 14	1453	05AD	D6	6D	4F	5F
19 15	1454	05AE	D6	6E	4F	3E
19 16	1455	05AF	D6	6F	4F	3F
19 17	1456	05B0	D6	F0	4F	30
19 18	1457	05B1	D6	F1	4F	31
19 19	1458	05B2	D6	F2	4F	32
19 20	1459	05B3	D6	F3	4F	33
19 21	1460	05B4	D6	F4	4F	34
19 22	1461	05B5	D6	F5	4F	35
19 23	1462	05B6	D6	F6	4F	36
19 24	1463	05B7	D6	F7	4F	37
19 25	1464	05B8	D6	F8	4F	38
19 26	1465	05B9	D6	F9	4F	39
19 27	1466	05BA	D6	7A	4F	3A
19 28	1467	05BB	D6	7B	4F	23
19 29	1468	05BC	D6	7C	4F	40
19 30	1469	05BD	D6	7D	4F	27
19 31	1470	05BE	D6	7E	4F	3D
19 32	1471	05BF	D6	7F	4F	22
19 33	1472	05C0	D7	40	50	20
19 34	1473	05C1	D7	C1	50	41
19 35	1474	05C2	D7	C2	50	42
19 36	1475	05C3	D7	C3	50	43
19 37	1476	05C4	D7	C4	50	44
19 38	1477	05C5	D7	C5	50	45
19 39	1478	05C6	D7	C6	50	46
19 40	1479	05C7	D7	C7	50	47
19 41	1480	05C8	D7	C8	50	48
19 42	1481	05C9	D7	C9	50	49
19 43	1482	05CA	D7	4A	50	5B
19 44	1483	05CB	D7	4B	50	2E
19 45	1484	05CC	D7	4C	50	3C
19 46	1485	05CD	D7	4D	50	28
19 47	1486	05CE	D7	4E	50	2B
19 48	1487	05CF	D7	4F	50	21

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
19 49	1488	05D0	D7	50	50	26
19 50	1489	05D1	D7	D1	50	4A
19 51	1490	05D2	D7	D2	50	4B
19 52	1491	05D3	D7	D3	50	4C
19 53	1492	05D4	D7	D4	50	4D
19 54	1493	05D5	D7	D5	50	4E
19 55	1494	05D6	D7	D6	50	4F
19 56	1495	05D7	D7	D7	50	50
19 57	1496	05D8	D7	D8	50	51
19 58	1497	05D9	D7	D9	50	52
19 59	1498	05DA	D7	5A	50	5D
19 60	1499	05DB	D7	5B	50	24
19 61	1500	05DC	D7	5C	50	2A
19 62	1501	05DD	D7	5D	50	29
19 63	1502	05DE	D7	5E	50	3B
19 64	1503	05DF	D7	5F	50	5E
19 65	1504	05E0	D7	60	50	2D
19 66	1505	05E1	D7	61	50	2F
19 67	1506	05E2	D7	E2	50	53
19 68	1507	05E3	D7	E3	50	54
19 69	1508	05E4	D7	E4	50	55
19 70	1509	05E5	D7	E5	50	56
19 71	1510	05E6	D7	E6	50	57
19 72	1511	05E7	D7	E7	50	58
19 73	1512	05E8	D7	E8	50	59
19 74	1513	05E9	D7	E9	50	5A
19 75	1514	05EA	D7	6A	50	7C
19 76	1515	05EB	D7	6B	50	2C
19 77	1516	05EC	D7	6C	50	25
19 78	1517	05ED	D7	6D	50	5F
19 79	1518	05EE	D7	6E	50	3E
19 80	1519	05EF	D7	6F	50	3F
20 01	1520	05F0	D7	F0	50	30
20 02	1521	05F1	D7	F1	50	31
20 03	1522	05F2	D7	F2	50	32
20 04	1523	05F3	D7	F3	50	33
20 05	1524	05F4	D7	F4	50	34
20 06	1525	05F5	D7	F5	50	35
20 07	1526	05F6	D7	F6	50	36
20 08	1527	05F7	D7	F7	50	37
20 09	1528	05F8	D7	F8	50	38
20 10	1529	05F9	D7	F9	50	39
20 11	1530	05FA	D7	7A	50	3A
20 12	1531	05FB	D7	7B	50	23
20 13	1532	05FC	D7	7C	50	40
20 14	1533	05FD	D7	7D	50	27
20 15	1534	05FE	D7	7E	50	3D
20 16	1535	05FF	D7	7F	50	22
20 17	1536	0600	D8	40	51	20
20 18	1537	0601	D8	C1	51	41
20 19	1538	0602	D8	C2	51	42
20 20	1539	0603	D8	C3	51	43
20 21	1540	0604	D8	C4	51	44
20 22	1541	0605	D8	C5	51	45
20 23	1542	0606	D8	C6	51	46
20 24	1543	0607	D8	C7	51	47
20 25	1544	0608	D8	C8	51	48
20 26	1545	0609	D8	C9	51	49
20 27	1546	060A	D8	4A	51	5B
20 28	1547	060B	D8	4B	51	2E
20 29	1548	060C	D8	4C	51	3C
20 30	1549	060D	D8	4D	51	28

Mod 1 <u>R_C</u>	Mods 2,3,4 <u>R_C</u>	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
20 31	1550	060E	D8	4E	51	2B	
20 32	1551	060F	D8	4F	51	21	
20 33	1552	0610	D8	50	51	26	
20 34	1553	0611	D8	D1	51	4A	
20 35	1554	0612	D8	D2	51	4B	
20 36	1555	0613	D8	D3	51	4C	
20 37	1556	0614	D8	D4	51	4D	
20 38	1557	0615	D8	D5	51	4E	
20 39	1558	0616	D8	D6	51	4F	
20 40	1559	0617	D8	D7	51	50	
20 41	1560	0618	D8	D8	51	51	
20 42	1561	0619	D8	D9	51	52	
20 43	1562	061A	D8	5A	51	5D	
20 44	1563	061B	D8	5B	51	24	
20 45	1564	061C	D8	5C	51	2A	
20 46	1565	061D	D8	5D	51	29	
20 47	1566	061E	D8	5E	51	3B	
20 48	1567	061F	D8	5F	51	5E	
20 49	1568	0620	D8	60	51	2D	
20 50	1569	0621	D8	61	51	2F	
20 51	1570	0622	D8	E2	51	53	
20 52	1571	0623	D8	E3	51	54	
20 53	1572	0624	D8	E4	51	55	
20 54	1573	0625	D8	E5	51	56	
20 55	1574	0626	D8	E6	51	57	
20 56	1575	0627	D8	E7	51	58	
20 57	1576	0628	D8	E8	51	59	
20 58	1577	0629	D8	E9	51	5A	
20 59	1578	062A	D8	6A	51	7C	
20 60	1579	062B	D8	6B	51	2C	
20 61	1580	062C	D8	6C	51	25	
20 62	1581	062D	D8	6D	51	5F	
20 63	1582	062E	D8	6E	51	3E	
20 64	1583	062F	D8	6F	51	3F	
20 65	1584	0630	D8	F0	51	30	
20 66	1585	0631	D8	F1	51	31	
20 67	1586	0632	D8	F2	51	32	
20 68	1587	0633	D8	F3	51	33	
20 69	1588	0634	D8	F4	51	34	
20 70	1589	0635	D8	F5	51	35	
20 71	1590	0636	D8	F6	51	36	
20 72	1591	0637	D8	F7	51	37	
20 73	1592	0638	D8	F8	51	38	
20 74	1593	0639	D8	F9	51	39	
20 75	1594	063A	D8	7A	51	3A	
20 76	1595	063B	D8	7B	51	23	
20 77	1596	063C	D8	7C	51	40	
20 78	1597	063D	D8	7D	51	27	
20 79	1598	063E	D8	7E	51	3D	
20 80	1599	063F	D8	7F	51	22	
21 01	1600	0640	D9	40	52	20	
21 02	1601	0641	D9	C1	52	41	
21 03	1602	0642	D9	C2	52	42	
21 04	1603	0643	D9	C3	52	43	
21 05	1604	0644	D9	C4	52	44	
21 06	1605	0645	D9	C5	52	45	
21 07	1606	0646	D9	C6	52	46	
21 08	1607	0647	D9	C7	52	47	
21 09	1608	0648	D9	C8	52	48	
21 10	1609	0649	D9	C9	52	49	
21 11	1610	064A	D9	4A	52	5B	
21 12	1611	064B	D9	4B	52	2E	

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
21 13		1612	064C	D9	4C	52	3C
21 14		1613	064D	D9	4D	52	28
21 15		1614	064E	D9	4E	52	2B
21 16		1615	064F	D9	4F	52	21
21 17		1616	0650	D9	50	52	26
21 18		1617	0651	D9	D1	52	4A
21 19		1618	0652	D9	D2	52	4B
21 20		1619	0653	D9	D3	52	4C
21 21		1620	0654	D9	D4	52	4D
21 22		1621	0655	D9	D5	52	4E
21 23		1622	0656	D9	D6	52	4F
21 24		1623	0657	D9	D7	52	50
21 25		1624	0658	D9	D8	52	51
21 26		1625	0659	D9	D9	52	52
21 27		1626	065A	D9	5A	52	5D
21 28		1627	065B	D9	5B	52	24
21 29		1628	065C	D9	5C	52	2A
21 30		1629	065D	D9	5D	52	29
21 31		1630	065E	D9	5E	52	3B
21 32		1631	065F	D9	5F	52	5E
21 33		1632	0660	D9	60	52	2D
21 34		1633	0661	D9	61	52	2F
21 35		1634	0662	D9	E2	52	53
21 36		1635	0663	D9	E3	52	54
21 37		1636	0664	D9	E4	52	55
21 38		1637	0665	D9	E5	52	56
21 39		1638	0666	D9	E6	52	57
21 40		1639	0667	D9	E7	52	58
21 41		1640	0668	D9	E8	52	59
21 42		1641	0669	D9	E9	52	5A
21 43		1642	066A	D9	6A	52	7C
21 44		1643	066B	D9	6B	52	2C
21 45		1644	066C	D9	6C	52	25
21 46		1645	066D	D9	6D	52	5F
21 47		1646	066E	D9	6E	52	3E
21 48		1647	066F	D9	6F	52	3F
21 49		1648	0670	D9	F0	52	30
21 50		1649	0671	D9	F1	52	31
21 51		1650	0672	D9	F2	52	32
21 52		1651	0673	D9	F3	52	33
21 53		1652	0674	D9	F4	52	34
21 54		1653	0675	D9	F5	52	35
21 55		1654	0676	D9	F6	52	36
21 56		1655	0677	D9	F7	52	37
21 57		1656	0678	D9	F8	52	38
21 58		1657	0679	D9	F9	52	39
21 59		1658	067A	D9	7A	52	3A
21 60		1659	067B	D9	7B	52	23
21 61		1660	067C	D9	7C	52	40
21 62		1661	067D	D9	7D	52	27
21 63		1662	067E	D9	7E	52	3D
21 64		1663	067F	D9	7F	52	22
21 65		1664	0680	5A	40	5D	20
21 66		1665	0681	5A	C1	5D	41
21 67		1666	0682	5A	C2	5D	42
21 68		1667	0683	5A	C3	5D	43
21 69		1668	0684	5A	C4	5D	44
21 70		1669	0685	5A	C5	5D	45
21 71		1670	0686	5A	C6	5D	46
21 72		1671	0687	5A	C7	5D	47
21 73		1672	0688	5A	C8	5D	48
21 74		1673	0689	5A	C9	5D	49

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
21 75	1674	068A	5A	4A	5D	5B
21 76	1675	068B	5A	4B	5D	2E
21 77	1676	068C	5A	4C	5D	3C
21 78	1677	068D	5A	4D	5D	28
21 79	1678	068E	5A	4E	5D	2B
21 80	1679	068F	5A	4F	5D	21
22 01	1680	0690	5A	50	5D	26
22 02	1681	0691	5A	D1	5D	4A
22 03	1682	0692	5A	D2	5D	4B
22 04	1683	0693	5A	D3	5D	4C
22 05	1684	0694	5A	D4	5D	4D
22 06	1685	0695	5A	D5	5D	4E
22 07	1686	0696	5A	D6	5D	4F
22 08	1687	0697	5A	D7	5D	50
22 09	1688	0698	5A	D8	5D	51
22 10	1689	0699	5A	D9	5D	52
22 11	1690	069A	5A	5A	5D	5D
22 12	1691	069B	5A	5B	5D	24
22 13	1692	069C	5A	5C	5D	2A
22 14	1693	069D	5A	5D	5D	29
22 15	1694	069E	5A	5E	5D	3B
22 16	1695	069F	5A	5F	5D	5E
22 17	1696	06A0	5A	60	5D	2D
22 18	1697	06A1	5A	61	5D	2F
22 19	1698	06A2	5A	E2	5D	53
22 20	1699	06A3	5A	E3	5D	54
22 21	1700	06A4	5A	E4	5D	55
22 22	1701	06A5	5A	E5	5D	56
22 23	1702	06A6	5A	E6	5D	57
22 24	1703	06A7	5A	E7	5D	58
22 25	1704	06A8	5A	E8	5D	59
22 26	1705	06A9	5A	E9	5D	5A
22 27	1706	06AA	5A	6A	5D	7C
22 28	1707	06AB	5A	6B	5D	2C
22 29	1708	06AC	5A	6C	5D	25
22 30	1709	06AD	5A	6D	5D	5F
22 31	1710	06AE	5A	6E	5D	3E
22 32	1711	06AF	5A	6F	5D	3F
22 33	1712	06B0	5A	F0	5D	30
22 34	1713	06B1	5A	F1	5D	31
22 35	1714	06B2	5A	F2	5D	32
22 36	1715	06B3	5A	F3	5D	33
22 37	1716	06B4	5A	F4	5D	34
22 38	1717	06B5	5A	F5	5D	35
22 39	1718	06B6	5A	F6	5D	36
22 40	1719	06B7	5A	F7	5D	37
22 41	1720	06B8	5A	F8	5D	38
22 42	1721	06B9	5A	F9	5D	39
22 43	1722	06BA	5A	7A	5D	3A
22 44	1723	06BB	5A	7B	5D	23
22 45	1724	06BC	5A	7C	5D	40
22 46	1725	06BD	5A	7D	5D	27
22 47	1726	06BE	5A	7E	5D	3D
22 48	1727	06BF	5A	7F	5D	22
22 49	1728	06C0	5B	40	24	20
22 50	1729	06C1	5B	C1	24	41
22 51	1730	06C2	5B	C2	24	42
22 52	1731	06C3	5B	C3	24	43
22 53	1732	06C4	5B	C4	24	44
22 54	1733	06C5	5B	C5	24	45
22 55	1734	06C6	5B	C6	24	46
22 56	1735	06C7	5B	C7	24	47

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
22 57	1736	06C8	5B	C8	24	48
22 58	1737	06C9	5B	C9	24	49
22 59	1738	06CA	5B	4A	24	5B
22 60	1739	06CB	5B	4B	24	2E
22 61	1740	06CC	5B	4C	24	3C
22 62	1741	06CD	5B	4D	24	28
22 63	1742	06CE	5B	4E	24	2B
22 64	1743	06CF	5B	4F	24	21
22 65	1744	06D0	5B	50	24	26
22 66	1745	06D1	5B	D1	24	4A
22 67	1746	06D2	5B	D2	24	4B
22 68	1747	06D3	5B	D3	24	4C
22 69	1748	06D4	5B	D4	24	4D
22 70	1749	06D5	5B	D5	24	4E
22 71	1750	06D6	5B	D6	24	4F
22 72	1751	06D7	5B	D7	24	50
22 73	1752	06D8	5B	D8	24	51
22 74	1753	06D9	5B	D9	24	52
22 75	1754	06DA	5B	5A	24	5D
22 76	1755	06DB	5B	5B	24	24
22 77	1756	06DC	5B	5C	24	2A
22 78	1757	06DD	5B	5D	24	29
22 79	1758	06DE	5B	5E	24	3B
22 80	1759	06DF	5B	5F	24	5E
23 01	1760	06E0	5B	60	24	2D
23 02	1761	06E1	5B	61	24	2F
23 03	1762	06E2	5B	E2	24	53
23 04	1763	06E3	5B	E3	24	54
23 05	1764	06E4	5B	E4	24	55
23 06	1765	06E5	5B	E5	24	56
23 07	1766	06E6	5B	E6	24	57
23 08	1767	06E7	5B	E7	24	58
23 09	1768	06E8	5B	E8	24	59
23 10	1769	06E9	5B	E9	24	5A
23 11	1770	06EA	5B	6A	24	7C
23 12	1771	06EB	5B	6B	24	2C
23 13	1772	06EC	5B	6C	24	25
23 14	1773	06ED	5B	6D	24	5F
23 15	1774	06EE	5B	6E	24	3E
23 16	1775	06EF	5B	6F	24	3F
23 17	1776	06F0	5B	F0	24	30
23 18	1777	06F1	5B	F1	24	31
23 19	1778	06F2	5B	F2	24	32
23 20	1779	06F3	5B	F3	24	33
23 21	1780	06F4	5B	F4	24	34
23 22	1781	06F5	5B	F5	24	35
23 23	1782	06F6	5B	F6	24	36
23 24	1783	06F7	5B	F7	24	37
23 25	1784	06F8	5B	F8	24	38
23 26	1785	06F9	5B	F9	24	39
23 27	1786	06FA	5B	7A	24	3A
23 28	1787	06FB	5B	7B	24	23
23 29	1788	06FC	5B	7C	24	40
23 30	1789	06FD	5B	7D	24	27
23 31	1790	06FE	5B	7E	24	3D
23 32	1791	06FF	5B	7F	24	22
23 33	1792	0700	5C	40	2A	20
23 34	1793	0701	5C	C1	2A	41
23 35	1794	0702	5C	C2	2A	42
23 36	1795	0703	5C	C3	2A	43
23 37	1796	0704	5C	C4	2A	44
23 38	1797	0705	5C	C5	2A	45

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
	23 39	1798	0706	5C	C6	2A	46
	23 40	1799	0707	5C	C7	2A	47
	23 41	1800	0708	5C	C8	2A	48
	23 42	1801	0709	5C	C9	2A	49
	23 43	1802	070A	5C	4A	2A	5B
	23 44	1803	070B	5C	4B	2A	2E
	23 45	1804	070C	5C	4C	2A	3C
	23 46	1805	070D	5C	4D	2A	28
	23 47	1806	070E	5C	4E	2A	2B
	23 48	1807	070F	5C	4F	2A	21
	23 49	1808	0710	5C	50	2A	26
	23 50	1809	0711	5C	D1	2A	4A
	23 51	1810	0712	5C	D2	2A	4B
	23 52	1811	0713	5C	D3	2A	4C
	23 53	1812	0714	5C	D4	2A	4D
	23 54	1813	0715	5C	D5	2A	4E
	23 55	1814	0716	5C	D6	2A	4F
	23 56	1815	0717	5C	D7	2A	50
	23 57	1816	0718	5C	D8	2A	51
	23 58	1817	0719	5C	D9	2A	52
	23 59	1818	071A	5C	5A	2A	5D
	23 60	1819	071B	5C	5B	2A	24
	23 61	1820	071C	5C	5C	2A	2A
	23 62	1821	071D	5C	5D	2A	29
	23 63	1822	071E	5C	5E	2A	3B
	23 64	1823	071F	5C	5F	2A	5E
	23 65	1824	0720	5C	60	2A	2D
	23 66	1825	0721	5C	61	2A	2F
	23 67	1826	0722	5C	E2	2A	53
	23 68	1827	0723	5C	E3	2A	54
	23 69	1828	0724	5C	E4	2A	55
	23 70	1829	0725	5C	E5	2A	56
	23 71	1830	0726	5C	E6	2A	57
	23 72	1831	0727	5C	E7	2A	58
	23 73	1832	0728	5C	E8	2A	59
	23 74	1833	0729	5C	E9	2A	5A
	23 75	1834	072A	5C	6A	2A	7C
	23 76	1835	072B	5C	6B	2A	2C
	23 77	1836	072C	5C	6C	2A	25
	23 78	1837	072D	5C	6D	2A	5F
	23 79	1838	072E	5C	6E	2A	3E
	23 80	1839	072F	5C	6F	2A	3F
	24 01	1840	0730	5C	F0	2A	30
	24 02	1841	0731	5C	F1	2A	31
	24 03	1842	0732	5C	F2	2A	32
	24 04	1843	0733	5C	F3	2A	33
	24 05	1844	0734	5C	F4	2A	34
	24 06	1845	0735	5C	F5	2A	35
	24 07	1846	0736	5C	F6	2A	36
	24 08	1847	0737	5C	F7	2A	37
	24 09	1848	0738	5C	F8	2A	38
	24 10	1849	0739	5C	F9	2A	39
	24 11	1850	073A	5C	7A	2A	3A
	24 12	1851	073B	5C	7B	2A	23
	24 13	1852	073C	5C	7C	2A	40
	24 14	1853	073D	5C	7D	2A	27
	24 15	1854	073E	5C	7E	2A	3D
	24 16	1855	073F	5C	7F	2A	22
	24 17	1856	0740	5D	40	29	20
	24 18	1857	0741	5D	C1	29	41
	24 19	1858	0742	5D	C2	29	42
	24 20	1859	0743	5D	C3	29	43

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
24 21		1860	0744	5D	C4	29 44
24 22		1861	0745	5D	C5	29 45
24 23		1862	0746	5D	C6	29 46
24 24		1863	0747	5D	C7	29 47
24 25		1864	0748	5D	C8	29 48
24 26		1865	0749	5D	C9	29 49
24 27		1866	074A	5D	4A	29 5B
24 28		1867	074B	5D	4B	29 2E
24 29		1868	074C	5D	4C	29 3C
24 30		1869	074D	5D	4D	29 28
24 31		1870	074E	5D	4E	29 2B
24 32		1871	074F	5D	4F	29 21
24 33		1872	0750	5D	50	29 26
24 34		1873	0751	5D	D1	29 4A
24 35		1874	0752	5D	D2	29 4B
24 36		1875	0753	5D	D3	29 4C
24 37		1876	0754	5D	D4	29 4D
24 38		1877	0755	5D	D5	29 4E
24 39		1878	0756	5D	D6	29 4F
24 40		1879	0757	5D	D7	29 50
24 41		1880	0758	5D	D8	29 51
24 42		1881	0759	5D	D9	29 52
24 43		1882	075A	5D	5A	29 5D
24 44		1883	075B	5D	5B	29 24
24 45		1884	075C	5D	5C	29 2A
24 46		1885	075D	5D	5D	29 29
24 47		1886	075E	5D	5E	29 3B
24 48		1887	075F	5D	5F	29 5E
24 49		1888	0760	5D	60	29 2D
24 50		1889	0761	5D	61	29 2F
24 51		1890	0762	5D	E2	29 53
24 52		1891	0763	5D	E3	29 54
24 53		1892	0764	5D	E4	29 55
24 54		1893	0765	5D	E5	29 56
24 55		1894	0766	5D	E6	29 57
24 56		1895	0767	5D	E7	29 58
24 57		1896	0768	5D	E8	29 59
24 58		1897	0769	5D	E9	29 5A
24 59		1898	076A	5D	6A	29 7C
24 60		1899	076B	5D	6B	29 2C
24 61		1900	076C	5D	6C	29 25
24 62		1901	076D	5D	6D	29 5F
24 63		1902	076E	5D	6E	29 3E
24 64		1903	076F	5D	6F	29 3F
24 65		1904	0770	5D	F0	29 30
24 66		1905	0771	5D	F1	29 31
24 67		1906	0772	5D	F2	29 32
24 68		1907	0773	5D	F3	29 33
24 69		1908	0774	5D	F4	29 34
24 70		1909	0775	5D	F5	29 35
24 71		1910	0776	5D	F6	29 36
24 72		1911	0777	5D	F7	29 37
24 73		1912	0778	5D	F8	29 38
24 74		1913	0779	5D	F9	29 39
24 75		1914	077A	5D	7A	29 3A
24 76		1915	077B	5D	7B	29 23
24 77		1916	077C	5D	7C	29 40
24 78		1917	077D	5D	7D	29 27
24 79		1918	077E	5D	7E	29 3D
24 80		1919	077F	5D	7F	29 22
25 01		1920	0780	5E	40	3B 20
25 02		1921	0781	5E	C1	3B 41

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
25 03		1922	0782	5E	C2	3B 42
25 04		1923	0783	5E	C3	3B 43
25 05		1924	0784	5E	C4	3B 44
25 06		1925	0785	5E	C5	3B 45
25 07		1926	0786	5E	C6	3B 46
25 08		1927	0787	5E	C7	3B 47
25 09		1928	0788	5E	C8	3B 48
25 10		1929	0789	5E	C9	3B 49
25 11		1930	078A	5E	4A	3B 5B
25 12		1931	078B	5E	4B	3B 2E
25 13		1932	078C	5E	4C	3B 3C
25 14		1933	078D	5E	4D	3B 28
25 15		1934	078E	5E	4E	3B 2B
25 16		1935	078F	5E	4F	3B 21
25 17		1936	0790	5E	50	3B 26
25 18		1937	0791	5E	D1	3B 4A
25 19		1938	0792	5E	D2	3B 4B
25 20		1939	0793	5E	D3	3B 4C
25 21		1940	0794	5E	D4	3B 4D
25 22		1941	0795	5E	D5	3B 4E
25 23		1942	0796	5E	D6	3B 4F
25 24		1943	0797	5E	D7	3B 50
25 25		1944	0798	5E	D8	3B 51
25 26		1945	0799	5E	D9	3B 52
25 27		1946	079A	5E	5A	3B 5D
25 28		1947	079B	5E	5B	3B 2A
25 29		1948	079C	5E	5C	3B 2A
25 30		1949	079D	5E	5D	3B 29
25 31		1950	079E	5E	5E	3B 3B
25 32		1951	079F	5E	5F	3B 5E
25 33		1952	07A0	5E	60	3B 2D
25 34		1953	07A1	5E	61	3B 2F
25 35		1954	07A2	5E	E2	3B 53
25 36		1955	07A3	5E	E3	3B 54
25 37		1956	07A4	5E	E4	3B 55
25 38		1957	07A5	5E	E5	3B 56
25 39		1958	07A6	5E	E6	3B 57
25 40		1959	07A7	5E	E7	3B 58
25 41		1960	07A8	5E	E8	3B 59
25 42		1961	07A9	5E	E9	3B 5A
25 43		1962	07AA	5E	6A	3B 7C
25 44		1963	07AB	5E	6B	3B 2C
25 45		1964	07AC	5E	6C	3B 2E
25 46		1965	07AD	5E	6D	3B 5I
25 47		1966	07AE	5E	6E	3B 3I
25 48		1967	07AF	5E	6F	3B 3I
25 49		1968	07B0	5E	F0	3B 3C
25 50		1969	07B1	5E	F1	3B 31
25 51		1970	07B2	5E	F2	3B 32
25 52		1971	07B3	5E	F3	3B 33
25 53		1972	07B4	5E	F4	3B 34
25 54		1973	07B5	5E	F5	3B 35
25 55		1974	07B6	5E	F6	3B 36
25 56		1975	07B7	5E	F7	3B 37
25 57		1976	07B8	5E	F8	3B 38
25 58		1977	07B9	5E	F9	3B 39
25 59		1978	07BA	5E	7A	3B 3A
25 60		1979	07BB	5E	7B	3B 23
25 61		1980	07BC	5E	7C	3B 40
25 62		1981	07BD	5E	7D	3B 27
25 63		1982	07BE	5E	7E	3B 3D
25 64		1983	07BF	5E	7F	3B 22

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
	25 65	1984	07C0	5F	40	5E	20
	25 66	1985	07C1	5F	C1	5E	41
	25 67	1986	07C2	5F	C2	5E	42
	25 68	1987	07C3	5F	C3	5E	43
	25 69	1988	07C4	5F	C4	5E	44
	25 70	1989	07C5	5F	C5	5E	45
	25 71	1990	07C6	5F	C6	5E	46
	25 72	1991	07C7	5F	C7	5E	47
	25 73	1992	07C8	5F	C8	5E	48
	25 74	1993	07C9	5F	C9	5E	49
	25 75	1994	07CA	5F	4A	5E	5B
	25 76	1995	07CB	5F	4B	5E	2E
	25 77	1996	07CC	5F	4C	5E	3C
	25 78	1997	07CD	5F	4D	5E	28
	25 79	1998	07CE	5F	4E	5E	2B
	25 80	1999	07CF	5F	4F	5E	21
	26 01	2000	07D0	5F	50	5E	26
	26 02	2001	07D1	5F	D1	5E	4A
	26 03	2002	07D2	5F	B2	5E	4B
	26 04	2003	07D3	5F	D3	5E	AC
	26 05	2004	07D4	5F	D4	5E	AD
	26 06	2005	07D5	5F	D5	5E	4E
	26 07	2006	07D6	5F	D6	5E	4F
	26 08	2007	07D7	5F	D7	5E	50
	26 09	2008	07D8	5F	D8	5E	51
	26 10	2009	07D9	5F	D9	5E	52
	26 11	2010	07DA	5F	5A	5E	5D
	26 12	2011	07DB	5F	5B	5E	24
	26 13	2012	07DC	5F	5C	5E	2A
	26 14	2013	07DD	5F	5D	5E	29
	26 15	2014	07DE	5F	5E	5E	3B
	26 16	2015	07DF	5F	5F	5E	5E
	26 17	2016	07E0	5F	60	5E	2D
	26 18	2017	07E1	5F	61	5E	2F
	26 19	2018	07E2	5F	E2	5E	53
	26 20	2019	07E3	5F	E3	5E	54
	26 21	2020	07E4	5F	E4	5E	55
	26 22	2021	07E5	5F	E5	5E	56
	26 23	2022	07E6	5F	E6	5E	57
	26 24	2023	07E7	5F	E7	5E	58
	26 25	2024	07E8	5F	E8	5E	59
	26 26	2025	07E9	5F	E9	5E	5A
	26 27	2026	07EA	5F	6A	5E	7C
	26 28	2027	07EB	5F	6B	5E	2C
	26 29	2028	07EC	5F	6C	5E	25
	26 30	2029	07ED	5F	6D	5E	5F
	26 31	2030	07EE	5F	6E	5E	3E
	26 32	2031	07EF	5F	6F	5E	3F
	26 33	2032	07F0	5F	F0	5E	30
	26 34	2033	07F1	5F	F1	5E	31
	26 35	2034	07F2	5F	F2	5E	32
	26 36	2035	07F3	5F	F3	5E	33
	26 37	2036	07F4	5F	F4	5E	34
	26 38	2037	07F5	5F	F5	5E	35
	26 39	2038	07F6	5F	F6	5E	36
	26 40	2039	07F7	5F	F7	5E	37
	26 41	2040	07F8	5F	F8	5E	38
	26 42	2041	07F9	5F	F9	5E	39
	26 43	2042	07FA	5F	7A	5E	3A
	26 44	2043	07FB	5F	7B	5E	23
	26 45	2044	07FC	5F	7C	5E	40
	26 46	2045	07FD	5F	7D	5E	27

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
26 47		2046	07FE	5F	7E	5E	D3
26 48		2047	07FF	5F	7F	5E	22
26 49		2048	0800	60	40	2D	20
26 50		2049	0801	60	C1	2D	41
26 51		2050	0802	60	C2	2D	42
26 52		2051	0803	60	C3	2D	43
26 53		2052	0804	60	C4	2D	44
26 54		2053	0805	60	C5	2D	45
26 55		2054	0806	60	C6	2D	46
26 56		2055	0807	60	C7	2D	47
26 57		2056	0808	60	C8	2D	48
26 58		2057	0809	60	C9	2D	49
26 59		2058	080A	60	4A	2D	5B
26 60		2059	080B	60	4B	2D	2E
26 61		2060	080C	60	4C	2D	3C
26 62		2061	080D	60	4D	2D	28
26 63		2062	080E	60	4E	2D	2B
26 64		2063	080F	60	4F	2D	21
26 65		2064	0810	60	50	2D	26
26 66		2065	0811	60	D1	2D	4A
26 67		2066	0812	60	D2	2D	4B
26 68		2067	0813	60	D3	2D	4C
26 69		2068	0814	60	D4	2D	4D
26 70		2069	0815	60	D5	2D	4E
26 71		2070	0816	60	D6	2D	4F
26 72		2071	0817	60	D7	2D	50
26 73		2072	0818	60	D8	2D	51
26 74		2073	0819	60	D9	2D	52
26 75		2074	081A	60	5A	2D	5D
26 76		2075	081B	60	5B	2D	24
26 77		2076	081C	60	5C	2D	2A
26 78		2077	081D	60	5D	2D	29
26 79		2078	081E	60	5E	2D	3B
26 80		2079	081F	60	5F	2D	5E
27 01		2080	0820	60	60	2D	2D
27 02		2081	0821	60	61	2D	2F
27 03		2082	0822	60	E2	2D	53
27 04		2083	0823	60	E3	2D	54
27 05		2084	0824	60	E4	2D	55
27 06		2085	0825	60	E5	2D	56
27 07		2086	0826	60	E6	2D	57
27 08		2087	0827	60	E7	2D	58
27 09		2088	0828	60	E8	2D	59
27 10		2089	0829	60	E9	2D	5A
27 11		2090	082A	60	6A	2D	7C
27 12		2091	082B	60	6B	2D	2C
27 13		2092	082C	60	6C	2D	25
27 14		2093	082D	60	6D	2D	5F
27 15		2094	082E	60	6E	2D	3E
27 16		2095	082F	60	6F	2D	3F
27 17		2096	0830	60	F0	2D	30
27 18		2097	0831	60	F1	2D	31
27 19		2098	0832	60	F2	2D	32
27 20		2099	0833	60	F3	2D	33
27 21		2100	0834	60	F4	2D	34
27 22		2101	0835	60	F5	2D	35
27 23		2102	0836	60	F6	2D	36
27 24		2103	0837	60	F7	2D	37
27 25		2104	0838	60	F8	2D	38
27 26		2105	0839	60	F9	2D	39
27 27		2106	083A	60	7A	2D	3A
27 28		2107	0838	60	7B	2D	23

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
27 29		2108	083C	60	7C	2D 40
27 30		2109	083D	60	7D	2D 27
27 31		2110	083E	60	7E	2D 3D
27 32		2111	083F	60	7F	2D 22
27 33		2112	0840	61	40	2F 20
27 34		2113	0841	61	C1	2F 41
27 35		2114	0842	61	C2	2F 42
27 36		2115	0843	61	C3	2F 43
27 37		2116	0844	61	C4	2F 44
27 38		2117	0845	61	C5	2F 45
27 39		2118	0846	61	C6	2F 46
27 40		2119	0847	61	C7	2F 47
27 41		2120	0848	61	C8	2F 48
27 42		2121	0849	61	C9	2F 49
27 43		2122	084A	61	4A	2F 5B
27 44		2123	084B	61	4B	2F 2E
27 45		2124	084C	61	4C	2F 3C
27 46		2125	084D	61	AD	2F 28
27 47		2126	084E	61	4E	2F 2B
27 48		2127	084F	61	4F	2F 21
27 49		2128	0850	61	50	2F 26
27 50		2129	0851	61	D1	2F 4A
27 51		2130	0852	61	D2	2F 4B
27 52		2131	0853	61	D3	2F 4C
27 53		2132	0854	61	D4	2F 4D
27 54		2133	0855	61	D5	2F 4E
27 55		2134	0856	61	D6	2F 4F
27 56		2135	0857	61	D7	2F 50
27 57		2136	0858	61	D8	2F 51
27 58		2137	0859	61	D9	2F 52
27 59		2138	085A	61	5A	2F 5D
27 60		2139	085B	61	5B	2F 24
27 61		2140	085C	61	5C	2F 2A
27 62		2141	085D	61	5D	2F 29
27 63		2142	085E	61	5E	2F 3B
27 64		2143	085F	61	5F	2F 5E
27 65		2144	0860	61	60	2F 2D
27 66		2145	0861	61	61	2F 2F
27 67		2146	0862	61	E2	2F 53
27 68		2147	0863	61	E3	2F 54
27 69		2148	0864	61	E4	2F 55
27 70		2149	0865	61	E5	2F 56
27 71		2150	0866	61	E6	2F 57
27 72		2151	0867	61	E7	2F 58
27 73		2152	0868	61	E8	2F 59
27 74		2153	0869	61	E9	2F 5A
27 75		2154	086A	61	6A	2F 7C
27 76		2155	086B	61	6B	2F 2C
27 77		2156	086C	61	6C	2F 25
27 78		2157	086D	61	6D	2F 5F
27 79		2158	086E	61	6E	2F 3E
27 80		2159	086F	61	6F	2F 3F
28 01		2160	0870	61	F0	2F 30
28 02		2161	0871	61	F1	2F 31
28 03		2162	0872	61	F2	2F 32
28 04		2163	0873	61	F3	2F 33
28 05		2164	0874	61	F4	2F 34
28 06		2165	0875	61	F5	2F 35
28 07		2166	0876	61	F6	2F 36
28 08		2167	0877	61	F7	2F 37
28 09		2168	0878	61	F8	2F 38
28 10		2169	0879	61	F9	2F 39

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
28 11	2170	087A	61	7A	2F	3A
28 12	2171	087B	61	7B	2F	23
28 13	2172	087C	61	7C	2F	40
28 14	2173	087D	61	7D	2F	27
28 15	2174	087E	61	7E	2F	3D
28 16	2175	087F	61	7F	2F	22
28 17	2176	0880	F2	40	53	20
28 18	2177	0881	E2	C1	53	41
28 19	2178	0882	E2	C2	53	42
28 20	2179	0883	E2	C3	53	43
28 21	2180	0884	E2	C4	53	44
28 22	2181	0885	E2	C5	53	45
28 23	2182	0886	E2	C6	53	46
28 24	2183	0887	E2	C7	53	47
28 25	2184	0888	E2	C8	53	48
28 26	2185	0889	E2	C9	53	49
28 27	2186	088A	E2	4A	53	5B
28 28	2187	088B	E2	4B	53	2E
28 29	2188	088C	E2	4C	53	3C
28 30	2189	088D	E2	4D	53	28
28 31	2190	088E	E2	4E	53	2B
28 32	2191	088F	E2	4F	53	21
28 33	2192	0890	E2	50	53	26
28 34	2193	0891	E2	D1	53	4A
28 35	2194	0892	E2	D2	53	4B
28 36	2195	0893	E2	D3	53	4C
28 37	2196	0894	E2	D4	53	4D
28 38	2197	0895	E2	D5	53	4E
28 39	2198	0896	E2	D6	53	4F
28 40	2199	0897	E2	D7	53	50
28 41	2200	0898	E2	D8	53	51
28 42	2201	0899	E2	D9	53	52
28 43	2202	089A	E2	5A	53	5D
28 44	2203	089B	E2	5B	53	24
28 45	2204	089C	E2	5C	53	2A
28 46	2205	089D	E2	5D	53	29
28 47	2206	089E	E2	5E	53	3B
28 48	2207	089F	E2	5F	53	5E
28 49	2208	08A0	E2	60	53	2D
28 50	2209	08A1	E2	61	53	2F
28 51	2210	08A2	E2	E2	53	53
28 52	2211	08A3	E2	E3	53	54
28 53	2212	08A4	E2	E4	53	55
28 54	2213	08A5	E2	E5	53	56
28 55	2214	08A6	E2	E6	53	57
28 56	2215	08A7	E2	E7	53	58
28 57	2216	08A8	E2	E8	53	59
28 58	2217	08A9	E2	E9	53	5A
28 59	2218	08AA	E2	6A	53	7C
28 60	2219	08AB	E2	6B	53	2C
28 61	2220	08AC	E2	6C	53	25
28 62	2221	08AD	E2	6D	53	5F
28 63	2222	08AE	E2	6E	53	3E
28 64	2223	08AF	E2	6F	53	3F
28 65	2224	08B0	E2	F0	53	30
28 66	2225	08B1	E2	F1	53	31
28 67	2226	08B2	E2	F2	53	32
28 68	2227	08B3	F2	F3	53	33
28 69	2228	08B4	E2	F4	53	34
28 70	2229	08B5	E2	F5	53	35
28 71	2230	08B6	E2	F6	53	36
28 72	2231	08B7	E2	F7	53	37

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
	28 73	2232	08B8	E2	F8	53	38
	28 74	2233	08B9	E2	F9	53	39
	28 75	2234	08BA	E2	7A	53	3A
	28 76	2235	08BB	E2	7B	53	23
	28 77	2236	08BC	E2	7C	53	40
	28 78	2237	08BD	E2	7D	53	27
	28 79	2238	08BE	E2	7E	53	3D
	28 80	2239	08BF	E2	7F	53	22
	29 01	2240	08C0	E3	40	54	20
	29 02	2241	08C1	E3	C1	54	41
	29 03	2242	08C2	E3	C2	54	42
	29 04	2243	08C3	F3	C3	54	43
	29 05	2244	08C4	E3	C4	54	44
	29 06	2245	08C5	E3	C5	54	45
	29 07	2246	08C6	E3	C6	54	46
	29 08	2247	08C7	E3	C7	54	47
	29 09	2248	08C8	E3	C8	54	48
	29 10	2249	08C9	E3	C9	54	49
	29 11	2250	08CA	E3	4A	54	5B
	29 12	2251	08CB	E3	4B	54	2E
	29 13	2252	08CC	E3	4C	54	3C
	29 14	2253	08CD	E3	4D	54	28
	29 15	2254	08CE	E3	4E	54	2B
	29 16	2255	08CF	E3	4F	54	21
	29 17	2256	08D0	E3	50	54	26
	29 18	2257	08D1	E3	D1	54	4A
	28 19	2258	08D2	E3	D2	54	4B
	29 20	2259	08D3	E3	D3	54	4C
	29 21	2260	08D4	E3	D4	54	4D
	29 22	2261	08D5	E3	D5	54	4E
	29 23	2262	08D6	E3	D6	54	4F
	29 24	2263	08D7	E3	D7	54	50
	29 25	2264	08D8	E3	D8	54	51
	29 26	2265	08D9	E3	D9	54	52
	29 27	2266	08DA	E3	5A	54	5D
	29 28	2267	08DB	E3	5B	54	24
	29 29	2268	08DC	E3	5C	54	2A
	29 30	2269	08DD	E3	5D	54	29
	29 31	2270	08DE	E3	5E	54	3B
	29 32	2271	08DF	E3	5F	54	5E
	29 33	2272	08E0	E3	60	54	2D
	29 34	2273	08E1	E3	61	54	2F
	29 35	2274	08E2	E3	E2	54	53
	29 36	2275	08E3	E3	E3	54	54
	29 37	2276	08E4	E3	E4	54	55
	29 38	2277	08E5	E3	E5	54	56
	29 39	2278	08E6	E3	E6	54	57
	29 40	2279	08E7	E3	E7	54	58
	29 41	2280	08E8	E3	E8	54	59
	29 42	2281	08E9	E3	E9	54	5A
	29 43	2282	08EA	E3	6A	54	7C
	29 44	2283	08EB	E3	6B	54	2C
	29 45	2284	08EC	E3	6C	54	25
	29 46	2285	08ED	E3	6D	54	5F
	29 47	2286	08EE	E3	6E	54	3E
	29 48	2287	08EF	E3	6F	54	3F
	29 49	2288	08F0	F3	F0	54	30
	29 50	2289	08F1	E3	F1	54	31
	29 51	2290	08F2	E3	F2	54	32
	29 52	2291	08F3	E3	F3	54	33
	29 53	2292	08F4	E3	F4	54	34
	29 54	2293	08F5	E3	F5	54	35

Mod 1 R C	Mods 2,3,4 R C	Position Dec Hex	Buffer Address (Hex)			
			EBCDIC		ASCII	
29 55		2294 08F6	E3	F6	54	36
29 56		2295 08F7	E3	F7	54	37
29 57		2296 08F8	E3	F8	54	38
29 58		2297 08F9	E3	F9	54	39
29 59		2298 08FA	E3	7A	54	3A
29 60		2299 08FB	E3	7B	54	3B
29 61		2300 08FC	E3	7C	54	40
29 62		2301 08FD	E3	7D	54	27
29 63		2302 08FE	E3	7E	54	3D
29 64		2303 08FF	E3	7F	54	22
29 65		2304 0900	E4	40	55	20
29 66		2305 0901	E4	C1	55	41
29 67		2306 0902	E4	C2	55	42
29 68		2307 0903	E4	C3	55	43
29 69		2308 0904	E4	C4	55	44
29 70		2309 0905	E4	C5	55	45
29 71		2310 0906	E4	C6	55	46
29 72		2311 0907	E4	C7	55	47
29 73		2312 0908	E4	C8	55	48
29 74		2313 0909	E4	C9	55	49
29 75		2314 090A	E4	4A	55	5B
29 76		2315 090B	E4	4B	55	2E
29 77		2316 090C	E4	4C	55	3C
29 78		2317 090D	E4	4D	55	28
29 79		2318 090E	E4	4E	55	2B
29 80		2319 090F	E4	4F	55	21
30 01		2320 0910	E4	50	55	26
30 02		2321 0911	E4	D1	55	4A
30 03		2322 0912	E4	D2	55	4B
30 04		2323 0913	E4	D3	55	4C
30 05		2324 0914	E4	D4	55	4D
30 06		2325 0915	E4	D5	55	4E
30 07		2326 0916	E4	D6	55	4F
30 08		2327 0917	E4	D7	55	50
30 09		2328 0918	E4	D8	55	51
30 10		2329 0919	E4	D9	55	52
30 11		2330 091A	E4	5A	55	5D
30 12		2331 091B	E4	5B	55	24
30 13		2332 091C	E4	5C	55	2A
30 14		2333 091D	E4	5D	55	29
30 15		2334 091E	E4	5E	55	3B
30 16		2335 091F	E4	5F	55	5E
30 17		2336 0920	E4	60	55	2D
30 18		2337 0921	E4	61	55	2F
30 19		2338 0922	E4	E2	55	53
30 20		2339 0923	E4	E3	55	54
30 21		2340 0924	E4	E4	55	55
30 22		2341 0925	E4	E5	55	56
30 23		2342 0926	E4	E6	55	57
30 24		2343 0927	E4	E7	55	58
30 25		2344 0928	E4	E8	55	59
30 26		2345 0929	E4	E9	55	5A
30 27		2346 092A	E4	6A	55	7C
30 28		2347 092B	E4	6B	55	2C
30 29		2348 092C	E4	6C	55	25
30 30		2349 092D	E4	6D	55	5F
30 31		2350 092E	E4	6E	55	3E
30 32		2351 092F	E4	6F	55	3F
30 33		2352 0930	E4	F0	55	30
30 34		2353 0931	E4	F1	55	31
30 35		2354 0932	E4	F2	55	32
30 36		2355 0933	E4	F3	55	33

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)	
		Dec	Hex	EBCDIC	ASCII
	30 37	2356	0934	E4	F4
	30 38	2357	0935	E4	F5
	30 39	2358	0936	E4	F6
	30 40	2359	0937	E4	F7
	30 41	2360	0938	E4	F8
	30 42	2361	0939	E4	F9
	30 43	2362	093A	E4	7A
	30 44	2363	093B	E4	7B
	30 45	2364	093C	E4	7C
	30 46	2365	093D	E4	7D
	30 47	2366	093E	E4	7E
	30 48	2367	093F	E4	7F
	30 49	2368	0940	E5	40
	30 50	2369	0941	E5	C1
	30 51	2370	0942	E5	C2
	30 52	2371	0943	E5	C3
	30 53	2372	0944	E5	C4
	30 54	2373	0945	E5	C5
	30 55	2374	0946	E5	C6
	30 56	2375	0947	E5	C7
	30 57	2376	0948	E5	C8
	30 58	2377	0949	E5	C9
	30 59	2378	094A	E5	4A
	30 60	2379	094B	E5	4B
	30 61	2380	094C	E5	4C
	30 62	2381	094D	E5	4D
	30 63	2382	094E	E5	4E
	30 64	2383	094F	E5	4F
	30 65	2384	0950	E5	50
	30 66	2385	0951	E5	D1
	30 67	2386	0952	E5	D2
	30 68	2387	0953	E5	D3
	30 69	2388	0954	E5	D4
	30 70	2389	0955	E5	D5
	30 71	2390	0956	E5	D6
	30 72	2391	0957	E5	D7
	30 73	2392	0958	E5	D8
	30 74	2393	0959	E5	D9
	30 75	2394	095A	E5	5A
	30 76	2395	095B	E5	5B
	30 77	2396	095C	E5	5C
	30 78	2397	095D	E5	5D
	30 79	2398	095E	E5	5E
	30 80	2399	095F	E5	5F
	31 01	2400	0960	E5	60
	31 02	2401	0961	E5	61
	31 03	2402	0962	E5	E2
	31 04	2403	0963	E5	E3
	31 05	2404	0964	E5	E4
	31 06	2405	0965	E5	E5
	31 07	2406	0966	E5	E6
	31 08	2407	0967	E5	E7
	31 09	2408	0968	E5	E8
	31 10	2409	0969	E5	E9
	31 11	2410	096A	E5	6A
	31 12	2411	096B	E5	6B
	31 13	2412	096C	E5	6C
	31 14	2413	096D	E5	6D
	31 15	2414	096E	E5	6E
	31 16	2415	096F	E5	6F
	31 17	2416	0970	E5	F0
	31 18	2417	0971	E5	F1

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
	31 19	2418	0972	E5	F2	,56	32
	31 20	2419	0973	E5	F3	56	33
	31 21	2420	0974	E5	F4	56	34
	31 22	2421	0975	E5	F5	56	35
	31 23	2422	0976	E5	F6	56	36
	31 24	2423	0977	E5	F7	56	37
	31 25	2424	0978	E5	F8	56	38
	31 26	2425	0979	E5	F9	56	39
	31 27	2426	097A	E5	7A	56	3A
	31 28	2427	097B	E5	7B	56	23
	31 29	2428	097C	E5	7C	56	40
	31 30	2429	097D	E5	7D	56	27
	31 31	2430	097E	E5	7E	56	3D
	31 32	2431	097F	E5	7F	56	22
	31 33	2432	0980	E6	40	57	20
	31 34	2433	0981	E6	C1	57	41
	31 35	2434	0982	E6	C2	57	42
	31 36	2435	0983	E6	C3	57	43
	31 37	2436	0984	E6	C4	57	44
	31 38	2437	0985	E6	C5	57	45
	31 39	2438	0986	E6	C6	57	46
	31 40	2439	0987	E6	C7	57	47
	31 41	2440	0988	E6	C8	57	48
	31 42	2441	0989	E6	C9	57	49
	31 43	2442	098A	E6	4A	57	5B
	31 44	2443	098B	E6	4B	57	2E
	31 45	2444	098C	E6	4C	57	3C
	31 46	2445	098D	E6	4D	57	28
	31 47	2446	098E	E6	4E	57	2B
	31 48	2447	098F	E6	4F	57	21
	31 49	2448	0990	E6	50	57	26
	31 50	2449	0991	E6	D1	57	4A
	31 51	2450	0992	E6	D2	57	4B
	31 52	2451	0993	E6	D3	57	4C
	31 53	2452	0994	E6	D4	57	4D
	31 54	2453	0995	E6	D5	57	4E
	31 55	2454	0996	E6	D6	57	4F
	31 56	2455	0997	E6	D7	57	50
	31 57	2456	0998	E6	D8	57	51
	31 58	2457	0999	E6	D9	57	52
	31 59	2458	099A	E6	5A	57	5D
	31 60	2459	099B	E6	5B	57	24
	31 61	2460	099C	E6	5C	57	2A
	31 62	2461	099D	E6	5D	57	29
	31 63	2462	099E	E6	5E	57	3B
	31 64	2463	099F	E6	5F	57	5E
	31 65	2464	09A0	E6	60	57	2D
	31 66	2465	09A1	E6	61	57	2F
	31 67	2466	09A2	E6	E2	57	53
	31 68	2467	09A3	E6	E3	57	54
	31 69	2468	09A4	E6	E4	57	55
	31 70	2469	09A5	E6	E5	57	56
	31 71	2470	09A6	E6	E6	57	57
	31 72	2471	09A7	E6	E7	57	58
	31 73	2472	09A8	E6	E8	57	59
	31 74	2473	09A9	E6	E9	57	5A
	31 75	2474	09AA	E6	6A	57	7C
	31 76	2475	09AB	E6	6B	57	2C
	31 77	2476	09AC	E6	6C	57	25
	31 78	2477	09AD	E6	6D	57	5F
	31 79	2478	09AE	E6	6E	57	3E
	31 80	2479	09AF	E6	6F	57	3F

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
32 01	2480	09B0	E6	F0	57	30
32 02	2481	09B1	E6	F1	57	31
32 03	2482	09B2	E6	F2	57	32
32 04	2483	09B3	E6	F3	57	33
32 05	2484	09B4	E6	F4	57	34
32 06	2485	09B5	E6	F5	57	35
32 07	2486	09B6	E6	F6	57	36
32 08	2487	09B7	E6	F7	57	37
32 09	2488	09B8	E6	F8	57	38
32 10	2489	09B9	E6	F9	57	39
32 11	2490	09BA	E6	7A	57	3A
32 12	2491	09BB	E6	7B	57	23
32 13	2492	09BC	E6	7C	57	40
32 14	2493	09BD	E6	7D	57	27
32 15	2494	09BE	E6	7E	57	3D
32 16	2495	09BF	E6	7F	57	22
32 17	2496	09C0	E7	40	58	20
32 18	2497	09C1	E7	C1	58	41
32 19	2498	09C2	E7	C2	58	42
32 20	2499	09C3	E7	C3	58	43
32 21	2500	09C4	E7	C4	58	44
32 22	2501	09C5	E7	C5	58	45
32 23	2502	09C6	E7	C6	58	46
32 24	2503	09C7	E7	C7	58	47
32 25	2504	09C8	E7	C8	58	48
32 26	2505	09C9	E7	C9	58	49
32 27	2506	09CA	E7	4A	58	5B
32 28	2507	09CB	E7	4B	58	2E
32 29	2508	09CC	E7	4C	58	3C
32 30	2509	09CD	E7	4D	58	28
32 31	2510	09CE	E7	4E	58	2B
32 32	2511	09CF	E7	4F	58	21
32 33	2512	09D0	E7	50	58	26
32 34	2513	09D1	E7	D1	58	4A
32 35	2514	09D2	E7	D2	58	4B
32 36	2515	09D3	E7	D3	58	4C
32 37	2516	09D4	E7	D4	58	4D
32 38	2517	09D5	E7	D5	58	4E
32 39	2518	09D6	E7	D6	58	4F
32 40	2519	09D7	E7	D7	58	50
32 41	2520	09D8	E7	D8	58	51
32 42	2521	09D9	E7	D9	58	52
32 43	2522	09DA	E7	5A	58	5D
32 44	2523	09DB	E7	5B	58	24
32 45	2524	09DC	E7	5C	58	2A
32 46	2525	09DD	E7	5D	58	29
32 47	2526	09DE	E7	5E	58	3B
32 48	2527	09DF	E7	5F	58	5E
32 49	2528	09E0	E7	60	58	2D
32 50	2529	09E1	E7	61	58	2F
32 51	2530	09E2	E7	E2	58	53
32 52	2531	09E3	E7	E3	58	54
32 53	2532	09E4	E7	E4	58	55
32 54	2533	09E5	E7	E5	58	56
32 55	2534	09E6	E7	E6	58	57
32 56	2535	09E7	E7	E7	58	58
32 57	2536	09E8	E7	E8	58	59
32 58	2537	09E9	E7	E9	58	5A
32 59	2538	09EA	E7	6A	58	7C
32 60	2539	09EB	E7	6B	58	2C
32 61	2540	09EC	E7	6C	58	25
32 62	2541	09ED	E7	6D	58	5F

Mod 1	R C	Mods 2,3,4	Position		Buffer Address (Hex)			
			Dec	Hex	EBCDIC		ASCII	
		32 63	2542	09FE	E7	6E	58	3E
		32 64	2543	09EF	E7	6F	58	3F
		32 65	2544	09F0	E7	F0	58	30
		32 66	2545	09F1	E7	F1	58	31
		32 67	2546	09F2	F7	F2	58	32
		32 68	2547	09F3	E7	F3	58	33
		32 69	2548	09F4	E7	F4	58	34
		32 70	2549	09F5	E7	F5	58	35
		32 71	2550	09F6	E7	F6	58	36
		32 72	2551	09F7	E7	F7	58	37
		32 73	2552	09F8	E7	F8	58	38
		32 74	2553	09F9	E7	F9	58	39
		32 75	2554	09FA	E7	7A	58	3A
		32 76	2555	09FB	E7	7B	58	23
		32 77	2556	09FC	E7	7C	58	40
		32 78	2557	09FD	E7	7D	58	27
		32 79	2558	09FE	E7	7E	58	3D
		32 80	2559	09FF	E7	7F	58	22
		33 01	2560	0A00	E8	40	59	20
		33 02	2561	0A01	E8	C1	59	41
		33 03	2562	0A02	E8	C2	59	42
		33 04	2563	0A03	E8	C3	59	43
		33 05	2564	0A04	E8	C4	59	44
		33 06	2565	0A05	E8	C5	59	45
		33 07	2566	0A06	E8	C6	59	46
		33 08	2567	0A07	E8	C7	59	47
		33 09	2568	0A08	E8	C8	59	48
		33 10	2569	0A09	E8	C9	59	49
		33 11	2570	0A0A	E8	4A	59	5B
		33 12	2571	0A0B	E8	4B	59	2E
		33 13	2572	0A0C	E8	4C	59	3C
		33 14	2573	0A0D	E8	4D	59	28
		33 15	2574	0A0E	E8	4E	59	2B
		33 16	2575	0A0F	E8	4F	59	21
		33 17	2576	0A10	E8	50	59	26
		33 18	2577	0A11	E8	D1	59	4A
		33 19	2578	0A12	E8	D2	59	4B
		33 20	2579	0A13	E8	D3	59	4C
		33 21	2580	0A14	E8	D4	59	4D
		33 22	2581	0A15	E8	D5	59	4E
		33 23	2582	0A16	E8	D6	59	4F
		33 24	2583	0A17	E8	D7	59	50
		33 25	2584	0A18	E8	D8	59	51
		33 26	2585	0A19	E8	D9	59	52
		33 27	2586	0A1A	E8	5A	59	5D
		33 28	2587	0A1B	E8	5B	59	24
		33 29	2588	0A1C	E8	5C	59	2A
		33 30	2589	0A1D	E8	5D	59	29
		33 31	2590	0A1E	E8	5E	59	3B
		33 32	2591	0A1F	E8	5F	59	5E
		33 33	2592	0A20	E8	60	59	2D
		33 34	2593	0A21	E8	61	59	2F
		33 35	2594	0A22	E8	E2	59	53
		33 36	2595	0A23	E8	E3	59	54
		33 37	2596	0A24	E8	E4	59	55
		33 38	2597	0A25	E8	E5	59	56
		33 39	2598	0A26	E8	E6	59	57
		33 40	2599	0A27	E8	E7	59	58
		33 41	2600	0A28	E8	E8	59	59
		33 42	2601	0A29	E8	E9	59	5A
		33 43	2602	0A2A	E8	6A	59	7C
		33 44	2603	0A2B	E8	6B	59	2C

Mod 1 R C	Mods 2,3,4 Position				Buffer Address (Hex)			
	R	C	Dec	Hex	EBCDIC		ASCII	
	33 45	2604	0A2C	E8	6C	59	25	
	33 46	2605	0A2D	E8	6D	59	5F	
	33 47	2606	0A2E	E8	6E	59	3E	
	33 48	2607	0A2F	E8	6F	59	3F	
	33 49	2608	0A30	E8	F0	59	30	
	33 50	2609	0A31	E8	F1	59	31	
	33 51	2610	0A32	E8	F2	59	32	
	33 52	2611	0A33	E8	F3	59	33	
	33 53	2612	0A34	E8	F4	59	34	
	33 54	2613	0A35	E8	F5	59	35	
	33 55	2614	0A36	E8	F6	59	36	
	33 56	2615	0A37	E8	F7	59	37	
	33 57	2616	0A38	E8	F8	59	38	
	33 58	2617	0A39	E8	F9	59	39	
	33 59	2618	0A3A	E8	7A	59	3A	
	33 60	2619	0A3B	E8	7B	59	23	
	33 61	2620	0A3C	E8	7C	59	40	
	33 62	2621	0A3D	E8	7D	59	27	
	33 63	2622	0A3E	E8	7E	59	3D	
	33 64	2623	0A3F	E8	7F	59	22	
	33 65	2624	0A40	E9	40	5A	20	
	33 66	2625	0A41	E9	C1	5A	41	
	33 67	2626	0A42	E9	C2	5A	42	
	33 68	2627	0A43	E9	C3	5A	43	
	33 69	2628	0A44	E9	C4	5A	44	
	33 70	2629	0A45	E9	C5	5A	45	
	33 71	2630	0A46	E9	C6	5A	46	
	33 72	2631	0A47	E9	C7	5A	47	
	33 73	2632	0A48	E9	C8	5A	48	
	33 74	2633	0A49	E9	C9	5A	49	
	33 75	2634	0A4A	E9	4A	5A	5B	
	33 76	2635	0A4B	E9	4B	5A	2E	
	33 77	2636	0A4C	E9	4C	5A	3C	
	33 78	2637	0A4D	E9	4D	5A	28	
	33 79	2638	0A4E	E9	4E	5A	2B	
	33 80	2639	0A4F	E9	4F	5A	21	
	34 01	2640	0A50	E9	50	5A	26	
	34 02	2641	0A51	E9	D1	5A	4A	
	34 03	2642	0A52	E9	D2	5A	4B	
	34 04	2643	0A53	E9	D3	5A	4C	
	34 05	2644	0A54	E9	D4	5A	4D	
	34 06	2645	0A55	E9	D5	5A	4E	
	34 07	2646	0A56	E9	D6	5A	4F	
	34 08	2647	0A57	E9	D7	5A	50	
	34 09	2648	0A58	E9	D8	5A	51	
	34 10	2649	0A59	E9	D9	5A	52	
	34 11	2650	0A5A	E9	5A	5A	5D	
	34 12	2651	0A5B	E9	5B	5A	24	
	34 13	2652	0A5C	E9	5C	5A	2A	
	34 14	2653	0A5D	E9	5D	5A	29	
	34 15	2654	0A5E	E9	5E	5A	3B	
	34 16	2655	0A5F	E9	5F	5A	5E	
	34 17	2656	0A60	E9	60	5A	2D	
	34 18	2657	0A61	E9	61	5A	2F	
	34 19	2658	0A62	E9	E2	5A	53	
	34 20	2659	0A63	E9	E3	5A	54	
	34 21	2660	0A64	E9	E4	5A	55	
	34 22	2661	0A65	E9	E5	5A	56	
	34 23	2662	0A66	E9	E6	5A	57	
	34 24	2663	0A67	E9	E7	5A	58	
	34 25	2664	0A68	E9	E8	5A	59	
	34 26	2665	0A69	E9	E9	5A	5A	

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
	34 27	2666	0A6A	E9	6A	5A	7C
	34 28	2667	0A6B	E9	6B	5A	2C
	34 29	2668	0A6C	E9	6C	5A	25
	34 30	2669	0A6D	E9	6D	5A	5F
	34 31	2670	0A6E	E9	6E	5A	3E
	34 32	2671	0A6F	E9	6F	5A	3F
	34 33	2672	0A70	E9	F0	5A	30
	34 34	2673	0A71	E9	F1	5A	31
	34 35	2674	0A72	E9	F2	5A	32
	34 36	2675	0A73	E9	F3	5A	33
	34 37	2676	0A74	E9	F4	5A	34
	34 38	2677	0A75	E9	F5	5A	35
	34 39	2678	0A76	E9	F6	5A	36
	34 40	2679	0A77	E9	F7	5A	37
	34 41	2680	0A78	E9	F8	5A	38
	34 42	2681	0A79	E9	F9	5A	39
	34 43	2682	0A7A	E9	7A	5A	3A
	34 44	2683	0A7B	E9	7B	5A	23
	34 45	2684	0A7C	E9	7C	5A	40
	34 46	2685	0A7D	E9	7D	5A	27
	34 47	2686	0A7E	E9	7E	5A	3D
	34 48	2687	0A7E	E9	7F	5A	22
	34 49	2688	0A80	6A	40	7C	20
	34 50	2689	0A81	6A	C1	7C	41
	34 51	2690	0A82	6A	C2	7C	42
	34 52	2691	0A83	6A	C3	7C	43
	34 53	2692	0A84	6A	C4	7C	44
	34 54	2693	0A85	6A	C5	7C	45
	34 55	2694	0A86	6A	C6	7C	46
	34 56	2695	0A87	6A	C7	7C	47
	34 57	2696	0A88	6A	C8	7C	48
	34 58	2697	0A89	6A	C9	7C	49
	34 59	2698	0A8A	6A	4A	7C	5B
	34 60	2699	0A8B	6A	4B	7C	2E
	34 61	2700	0A8C	6A	4C	7C	3C
	34 62	2701	0A8D	6A	4D	7C	28
	34 63	2702	0A8E	6A	4E	7C	2B
	34 64	2703	0A8F	6A	4F	7C	21
	34 65	2704	0A90	6A	50	7C	26
	34 66	2705	0A91	6A	D1	7C	4A
	34 67	2706	0A92	6A	D2	7C	4B
	34 68	2707	0A93	6A	D3	7C	4C
	34 69	2708	0A94	6A	D4	7C	4D
	34 70	2709	0A95	6A	D5	7C	4E
	34 71	2710	0A96	6A	D6	7C	4F
	34 72	2711	0A97	6A	D7	7C	50
	34 73	2712	0A98	6A	D8	7C	51
	34 74	2713	0A99	6A	D9	7C	52
	34 75	2714	0A9A	6A	5A	7C	5D
	34 76	2715	0A9B	6A	5B	7C	24
	34 77	2716	0A9C	6A	5C	7C	2A
	34 78	2717	0A9D	6A	5D	7C	29
	34 79	2718	0A9E	6A	5E	7C	3B
	34 80	2719	0A9F	6A	5F	7C	5E
	35 01	2720	0AA0	6A	60	7C	2D
	35 02	2721	0AA1	6A	61	7C	2F
	35 03	2722	0AA2	6A	E2	7C	53
	35 04	2723	0AA3	6A	E3	7C	54
	35 05	2724	0AA4	6A	E4	7C	55
	35 06	2725	0AA5	6A	E5	7C	56
	35 07	2726	0AA6	6A	E6	7C	57
	35 08	2727	0AA7	6A	E7	7C	58

Mod 1 R C	Mods 2,3,4 R C	Position Dec Hex	Buffer Address (Hex)		
			EBCDIC	ASCII	
35 09		2728 0AA8	6A	E8	7C 59
35 10		2729 0AA9	6A	E9	7C 5A
35 11		2730 0AAA	6A	6A	7C 7C
35 12		2731 0AAB	6A	6B	7C 2C
35 13		2732 0AAC	6A	6C	7C 25
35 14		2733 0AAD	6A	6D	7C 5F
35 15		2734 0AAE	6A	6E	7C 3E
35 16		2735 0AAF	6A	6F	7C 3F
35 17		2736 0AB0	6A	F0	7C 30
35 18		2737 0AB1	6A	F1	7C 31
35 19		2738 0AB2	6A	F2	7C 32
35 20		2739 0AB3	6A	F3	7C 33
35 21		2740 0AB4	6A	F4	7C 34
35 22		2741 0AB5	6A	F5	7C 35
35 23		2742 0AB6	6A	F6	7C 36
35 24		2743 0AB7	6A	F7	7C 37
35 25		2744 0AB8	6A	F8	7C 38
35 26		2745 0AB9	6A	F9	7C 39
35 27		2746 0ABA	6A	7A	7C 3A
35 28		2747 0ABB	6A	7B	7C 23
35 29		2748 0ABC	6A	7C	7C 40
35 30		2749 0ABD	6A	7D	7C 27
35 31		2750 0ABE	6A	7F	7C 3D
35 32		2751 0ABF	6A	7F	7C 22
35 33		2752 0AC0	6B	40	2C 20
35 34		2753 0AC1	6B	C1	2C 41
35 35		2754 0AC2	6B	C2	2C 42
35 36		2755 0AC3	6B	C3	2C 43
35 37		2756 0AC4	6B	C4	2C 44
35 38		2757 0AC5	6B	C5	2C 45
35 39		2758 0AC6	6B	C6	2C 46
35 40		2759 0AC7	6B	C7	2C 47
35 41		2760 0AC8	6B	C8	2C 48
35 42		2761 0AC9	6B	C9	2C 49
35 43		2762 0ACA	6B	4A	2C 5B
35 44		2763 0ACB	6B	4B	2C 2E
35 45		2764 0ACC	6B	4C	2C 3C
35 46		2765 0ACD	6B	4D	2C 28
35 47		2766 0ACE	6B	4E	2C 2B
35 48		2767 0ACF	6B	4F	2C 21
35 49		2768 0AD0	6B	50	2C 26
35 50		2769 0AD1	6B	D1	2C 4A
35 51		2770 0AD2	6B	D2	2C 4B
35 52		2771 0AD3	6B	D3	2C 4C
35 53		2772 0AD4	6B	D4	2C 4D
35 54		2773 0AD5	6B	D5	2C 4E
35 55		2774 0AD6	6B	D6	2C 4F
35 56		2775 0AD7	6B	D7	2C 50
35 57		2776 0AD8	6B	D8	2C 51
35 58		2777 0AD9	6B	D9	2C 52
35 59		2778 0ADA	6B	5A	2C 5D
35 60		2779 0ADB	6B	5B	2C 24
35 61		2780 0ADC	6B	5C	2C 2A
35 62		2781 0ADD	6B	5D	2C 29
35 63		2782 0ADE	6B	5E	2C 3B
35 64		2783 0ADF	6B	5F	2C 5E
35 65		2784 0AE0	6B	60	2C 2D
35 66		2785 0AE1	6B	61	2C 2F
35 67		2786 0AE2	6B	E2	2C 53
35 68		2787 0AE3	6B	E3	2C 54
35 69		2788 0AE4	6B	E4	2C 55
35 70		2789 0AE5	6B	E5	2C 56

Mod 1 R C	Mods 2,3,4 R C	Position Dec Hex	Buffer Address (Hex)		
			EBCDIC	ASCII	
35 71		2790 0AE6	6B	E6	2C 57
35 72		2791 0AE7	6B	E7	2C 58
35 73		2792 0AE8	6B	E8	2C 59
35 74		2793 0AE9	6B	E9	2C 5A
35 75		2794 0AEA	6B	6A	2C 7C
35 76		2795 0AEB	6B	6B	2C 2C
35 77		2796 0AEC	6B	6C	2C 25
35 78		2797 0AED	6B	6D	2C 5F
35 79		2798 0AEE	6B	6F	2C 3E
35 80		2799 0AEF	6B	6F	2C 3F
36 01		2800 0AF0	6B	F0	2C 30
36 02		2801 0AF1	6B	F1	2C 31
36 03		2802 0AF2	6B	F2	2C 32
36 04		2803 0AF3	6B	F3	2C 33
36 05		2804 0AF4	6B	F4	2C 34
36 06		2805 0AF5	6B	F5	2C 35
36 07		2806 0AF6	6B	F6	2C 36
36 08		2807 0AF7	6B	F7	2C 37
36 09		2808 0AF8	6B	F8	2C 38
36 10		2809 0AF9	6B	F9	2C 39
36 11		2810 0AFA	6B	7A	2C 3A
36 12		2811 0AFB	6B	7B	2C 23
36 13		2812 0AFC	6B	7C	2C 40
36 14		2813 0AFD	6B	7D	2C 27
36 15		2814 0AFE	6B	7E	2C 3D
36 16		2815 0AFF	6B	7F	2C 22
36 17		2816 0B00	6C	40	25 20
36 18		2817 0B01	6C	C1	25 41
36 19		2818 0B02	6C	C2	25 42
36 20		2819 0B03	6C	C3	25 43
36 21		2820 0B04	6C	C4	25 44
36 22		2821 0B05	6C	C5	25 45
36 23		2822 0B06	6C	C6	25 46
36 24		2823 0B07	6C	C7	25 47
36 25		2824 0B08	6C	C8	25 48
36 26		2825 0B09	6C	C9	25 49
36 27		2826 0B0A	6C	4A	25 5B
36 28		2827 0B0B	6C	4B	25 2E
36 29		2828 0B0C	6C	4C	25 3C
36 30		2829 0B0D	6C	4D	25 28
36 31		2830 0B0E	6C	4E	25 2B
36 32		2831 0B0F	6C	4F	25 21
36 33		2832 0B10	6C	50	25 26
36 34		2833 0B11	6C	D1	25 4A
36 35		2834 0B12	6C	D2	25 4B
36 36		2835 0B13	6C	D3	25 4C
36 37		2836 0B14	6C	D4	25 4D
36 38		2837 0B15	6C	D5	25 4E
36 39		2838 0B16	6C	D6	25 4F
36 40		2839 0B17	6C	D7	25 50
36 41		2840 0B18	6C	D8	25 51
36 42		2841 0B19	6C	D9	25 52
36 43		2842 0B1A	6C	5A	25 5D
36 44		2843 0B1B	6C	5B	25 24
36 45		2844 0B1C	6C	5C	25 2A
36 46		2845 0B1D	6C	5D	25 29
36 47		2846 0B1E	6C	5E	25 3B
36 48		2847 0B1F	6C	5F	25 5E
36 49		2848 0B20	6C	60	25 2D
36 50		2849 0B21	6C	61	25 2F
36 51		2850 0B22	6C	E2	25 53
36 52		2851 0B23	6C	E3	25 54

Mod 1 R C	Mods 2,3,4 R C	Position Dec	Position Hex	Buffer Address (Hex)			
				EBCDIC	ASCII		
	36 53	2852	0B24	6C	E4	25	55
	36 54	2853	0B25	6C	E5	25	56
	36 55	2854	0B26	6C	E6	25	57
	36 56	2855	0B27	6C	E7	25	58
	36 57	2856	0B28	6C	E8	25	59
	36 58	2857	0B29	6C	E9	25	5A
	36 59	2858	0B2A	6C	6A	25	7C
	36 60	2859	0B2B	6C	6B	25	2C
	36 61	2860	0B2C	6C	6C	25	25
	36 62	2861	0B2D	6C	6D	25	5F
	36 63	2862	0B2E	6C	6E	25	3E
	36 64	2863	0B2F	6C	6F	25	3F
	36 65	2864	0B30	6C	F0	25	30
	36 66	2865	0B31	6C	F1	25	31
	36 67	2866	0B32	6C	F2	25	32
	36 68	2867	0B33	6C	F3	25	33
	36 69	2868	0B34	6C	F4	25	34
	36 70	2869	0B35	6C	F5	25	35
	36 71	2870	0B36	6C	F6	25	36
	36 72	2871	0B37	6C	F7	25	37
	36 73	2872	0B38	6C	F8	25	38
	36 74	2873	0B39	6C	F9	25	39
	36 75	2874	0B3A	6C	7A	25	3A
	36 76	2875	0B3B	6C	7B	25	23
	36 77	2876	0B3C	6C	7C	25	40
	36 78	2877	0B3D	6C	7D	25	27
	36 79	2878	0B3E	6C	7E	25	3D
	36 80	2879	0B3F	6C	7F	25	22
	37 01	2880	0B40	6D	40	5F	20
	37 02	2881	0B41	6D	C1	5F	41
	37 03	2882	0B42	6D	C2	5F	42
	37 04	2883	0B43	6D	C3	5F	43
	37 05	2884	0B44	6D	C4	5F	44
	37 06	2885	0B45	6D	C5	5F	45
	37 07	2886	0B46	6D	C6	5F	46
	37 08	2887	0B47	6D	C7	5F	47
	37 09	2888	0B48	6D	C8	5F	48
	37 10	2889	0B49	6D	C9	5F	49
	37 11	2890	0B4A	6D	4A	5F	58
	37 12	2891	0B4B	6D	4B	5F	2E
	37 13	2892	0B4C	6D	4C	5F	3C
	37 14	2893	0B4D	6D	4D	5F	28
	37 15	2894	0B4E	6D	4E	5F	2B
	37 16	2895	0B4F	6D	4F	5F	21
	37 17	2896	0B50	6D	50	5F	26
	37 18	2897	0B51	6D	D1	5F	4A
	37 19	2898	0B52	6D	D2	5F	4B
	37 20	2899	0B53	6D	D3	5F	4C
	37 21	2900	0B54	6D	D4	5F	4D
	37 22	2901	0B55	6D	D5	5F	4E
	37 23	2902	0B56	6D	D6	5F	4F
	37 24	2903	0B57	6D	D7	5F	50
	37 25	2904	0B58	6D	D8	5F	51
	37 26	2905	0B59	6D	D9	5F	52
	37 27	2906	0B5A	6D	5A	5F	5D
	37 28	2907	0B5B	6D	5B	5F	24
	37 29	2908	0B5C	6D	5C	5F	2A
	37 30	2909	0B5D	6D	5D	5F	29
	37 31	2910	0B5E	6D	5E	5F	3B
	37 32	2911	0B5F	6D	5F	5F	5E
	37 33	2912	0B60	6D	60	5F	2D
	37 34	2913	0B61	6D	61	5F	2F

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
37 35	2914	0B62	6D	E2	5F	53
37 36	2915	0B63	6D	E3	5F	54
37 37	2916	0B64	6D	E4	5F	55
37 38	2917	0B65	6D	E5	5F	56
37 39	2918	0B66	6D	E6	5F	57
37 40	2919	0B67	6D	E7	5F	58
37 41	2920	0B68	6D	E8	5F	59
37 42	2921	0B69	6D	E9	5F	5A
37 43	2922	0B6A	6D	6A	5F	7C
37 44	2923	0B6B	6D	6B	5F	2C
37 45	2924	0B6C	6D	6C	5F	25
37 46	2925	0B6D	6D	6D	5F	5F
37 47	2926	0B6E	6D	6E	5F	3E
37 48	2927	0B6F	6D	6F	5F	3F
37 49	2928	0B70	6D	F0	5F	30
37 50	2929	0B71	6D	F1	5F	31
37 51	2930	0B72	6D	F2	5F	32
37 52	2931	0B73	6D	F3	5F	33
37 53	2932	0B74	6D	F4	5F	34
37 54	2933	0B75	6D	F5	5F	35
37 55	2934	0B76	6D	F6	5F	36
37 56	2935	0B77	6D	F7	5F	37
37 57	2936	0B78	6D	F8	5F	38
37 58	2937	0B79	6D	F9	5F	39
37 59	2938	0B7A	6D	7A	5F	3A
37 60	2939	0B7B	6D	7B	5F	23
37 61	2940	0B7C	6D	7C	5F	40
37 62	2941	0B7D	6D	7D	5F	27
37 63	2942	0B7E	6D	7E	5F	3D
37 64	2943	0B7F	6D	7F	5F	22
37 65	2944	0B80	6E	40	3E	20
37 66	2945	0B81	6E	C1	3E	41
37 67	2946	0B82	6E	C2	3E	42
37 68	2947	0B83	6E	C3	3E	43
37 69	2948	0B84	6E	C4	3E	44
37 70	2949	0B85	6E	C5	3E	45
37 71	2950	0B86	6E	C6	3E	46
37 72	2951	0B87	6E	C7	3E	47
37 73	2952	0B88	6E	C8	3E	48
37 74	2953	0B89	6E	C9	3E	49
37 75	2954	0B8A	6E	4A	3E	5B
37 76	2955	0B8B	6E	4B	3E	2E
37 77	2956	0B8C	6E	4C	3E	3C
37 78	2957	0B8D	6E	4D	3E	28
37 79	2958	0B8E	6E	4E	3E	2B
37 80	2959	0B8F	6E	4F	3E	21
38 01	2960	0B90	6E	50	3E	26
38 02	2961	0B91	6E	D1	3E	4A
38 03	2962	0B92	6E	D2	3E	4B
38 04	2963	0B93	6E	D3	3E	4C
38 05	2964	0B94	6E	D4	3E	4D
38 06	2965	0B95	6E	D5	3E	4E
38 07	2966	0B96	6E	D6	3E	4F
38 08	2967	0B97	6E	D7	3E	50
38 09	2968	0B98	6E	D8	3E	51
38 10	2969	0B99	6E	D9	3E	52
38 11	2970	0B9A	6E	5A	3E	5D
38 12	2971	0B9B	6E	5B	3E	24
38 13	2972	0B9C	6E	5C	3E	2A
38 14	2973	0B9D	6E	5D	3E	29
38 15	2974	0B9E	6E	5E	3E	3B
38 16	2975	0B9F	6E	5F	3E	5E

Mod 1 R C	Mods 2,3,4	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
	38 17	2976	0BA0	6E	60	3E	2D
	38 18	2977	0BA1	6E	61	3E	2F
	38 19	2978	0BA2	6E	E2	3E	53
	38 20	2979	0BA3	6E	E3	3E	54
	38 21	2980	0BA4	6E	E4	3E	55
	38 22	2981	0BA5	6E	E5	3E	56
	38 23	2982	0BA6	6E	E6	3E	57
	38 24	2983	0BA7	6E	E7	3E	58
	38 25	2984	0BA8	6E	E8	3E	59
	38 26	2985	0BA9	6E	E9	3E	5A
	38 27	2986	0BAA	6E	6A	3E	7C
	38 28	2987	0BAB	6E	6B	3E	2C
	38 29	2988	0BAC	6E	6C	3E	25
	38 30	2989	0BAD	6E	6D	3E	5F
	38 31	2990	0BAE	6E	6E	3E	3E
	38 32	2991	0BAF	6E	6F	3E	3F
	38 33	2992	0BB0	6E	F0	3E	30
	38 34	2993	0BB1	6E	F1	3E	31
	38 35	2994	0BB2	6E	F2	3E	32
	38 36	2995	0BB3	6E	F3	3E	33
	38 37	2996	0BB4	6E	F4	3E	34
	38 38	2997	0BB5	6E	F5	3E	35
	38 39	2998	0BB6	6E	F6	3E	36
	38 40	2999	0BB7	6E	F7	3E	37
	38 41	3000	0BB8	6E	F8	3E	38
	38 42	3001	0BB9	6E	F9	3E	39
	38 43	3002	0BBA	6E	7A	3E	3A
	38 44	3003	0BBB	6E	7B	3E	23
	38 45	3004	0BBC	6E	7C	3E	40
	38 46	3005	0BBD	6E	7D	3E	27
	38 47	3006	0BBE	6E	7E	3E	3D
	38 48	3007	0BBF	6E	7F	3E	22
	38 49	3008	0BC0	6F	40	3F	20
	38 50	3009	0BC1	6F	C1	3F	41
	38 51	3010	0BC2	6F	C2	3F	42
	38 52	3011	0BC3	6F	C3	3F	43
	38 53	3012	0BC4	6F	C4	3F	44
	38 54	3013	0BC5	6F	C5	3F	45
	38 55	3014	0BC6	6F	C6	3F	46
	38 56	3015	0BC7	6F	C7	3F	47
	38 57	3016	0BC8	6F	C8	3F	48
	38 58	3017	0BC9	6F	C9	3F	49
	38 59	3018	0BCA	6F	4A	3F	5B
	38 60	3019	0BCB	6F	4B	3F	2E
	38 61	3020	0BCC	6F	4C	3F	3C
	38 62	3021	0BCD	6F	4D	3F	28
	38 63	3022	0BCE	6F	4E	3F	2B
	38 64	3023	0BCF	6F	4F	3F	21
	38 65	3024	0BDO	6F	50	3F	26
	38 66	3025	0BD1	6F	D1	3F	4A
	38 67	3026	0BD2	6F	D2	3F	4B
	38 68	3027	0BD3	6F	D3	3F	4C
	38 69	3028	0BD4	6F	D4	3F	4D
	38 70	3029	0BD5	6F	D5	3F	4E
	38 71	3030	0BD6	6F	D6	3F	4F
	38 72	3031	0BD7	6F	D7	3F	50
	38 73	3032	0BD8	6F	D8	3F	51
	38 74	3033	0BD9	6F	D9	3F	52
	38 75	3034	0BDA	6F	5A	3F	5D
	38 76	3035	0BDB	6F	5B	3F	24
	38 77	3036	0BDC	6F	5C	3F	2A
	38 78	3037	0BDD	6F	5D	3F	29

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
	38 79	3038	OBDE	6F	5E	3F
	38 80	3039	OBDF	6F	5F	3F
	39 01	3040	OBE0	6F	60	3F
	39 02	3041	OBE1	6F	61	3F
	39 03	3042	OBE2	6F	E2	3F
	39 04	3043	OBE3	6F	E3	3F
	39 05	3044	OBE4	6F	E4	3F
	39 06	3045	OBE5	6F	E5	3F
	39 07	3046	OBE6	6F	E6	3F
	39 08	3047	OBE7	6F	E7	3F
	39 09	3048	OBE8	6F	E8	3F
	39 10	3049	OBE9	6F	E9	3F
	39 11	3050	OBEA	6F	6A	3F
	39 12	3051	OBEB	6F	6B	3F
	39 13	3052	OPEC	6F	6C	3F
	39 14	3053	OBED	6F	6D	3F
	39 15	3054	OBEF	6F	6E	3F
	39 16	3055	OBEF	6F	6F	3F
	39 17	3056	OBFO	6F	F0	3F
	39 18	3057	OBF1	6F	F1	3F
	39 19	3058	OBF2	6F	F2	3F
	39 20	3059	OBF3	6F	F3	3F
	39 21	3060	OBF4	6F	F4	3F
	39 22	3061	OBF5	6F	F5	3F
	39 23	3062	OBF6	6F	F6	3F
	39 24	3063	OBF7	6F	F7	3F
	39 25	3064	OBF8	6F	F8	3F
	39 26	3065	OBF9	6F	F9	3F
	39 27	3066	OBFA	6F	7A	3F
	39 28	3067	OBFB	6F	7B	3F
	39 29	3068	OBFC	6F	7C	3F
	39 30	3069	OBFD	6F	7D	3F
	39 31	3070	OBFE	6F	7E	3F
	39 32	3071	OBFF	6F	7F	3F
	39 33	3072	OC00	F0	40	30
	39 34	3073	OC01	F0	C1	30
	39 35	3074	OC02	F0	C2	30
	39 36	3075	OC03	F0	C3	30
	39 37	3076	OC04	F0	C4	30
	39 38	3077	OC05	F0	C5	30
	39 39	3078	OC06	F0	C6	30
	39 40	3079	OC07	F0	C7	30
	39 41	3080	OC08	F0	C8	30
	39 42	3081	OC09	F0	C9	30
	39 43	3082	OC0A	F0	4A	30
	39 44	3083	OC0B	F0	4B	30
	39 45	3084	OC0C	F0	4C	30
	39 46	3085	OC0D	F0	4D	30
	39 47	3086	OC0E	F0	4E	30
	39 48	3087	OC0F	F0	4F	30
	39 49	3088	OC10	F0	50	30
	39 50	3089	OC11	F0	D1	30
	39 51	3090	OC12	F0	D2	30
	39 52	3091	OC13	F0	D3	30
	39 53	3092	OC14	F0	D4	30
	39 54	3093	OC15	F0	D5	30
	39 55	3094	OC16	F0	D6	30
	39 56	3095	OC17	F0	D7	30
	39 57	3096	OC18	F0	D8	30
	39 58	3097	OC19	F0	D9	30
	39 59	3098	OC1A	F0	5A	30
	39 60	3099	OC1B	F0	5B	30

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
	39 61	3100	0C1C	F0	5C	30	2A
	39 62	3101	0C1D	F0	5D	30	29
	39 63	3102	0C1E	F0	5E	30	3B
	39 64	3103	0C1F	F0	5F	30	5E
	39 65	3104	0C20	F0	60	30	2D
	39 66	3105	0C21	F0	61	30	2F
	39 67	3106	0C22	F0	E2	30	53
	39 68	3107	0C23	F0	E3	30	54
	39 69	3108	0C24	F0	E4	30	55
	39 70	3109	0C25	F0	E5	30	56
	39 71	3110	0C26	F0	E6	30	57
	39 72	3111	0C27	F0	E7	30	58
	39 73	3112	0C28	F0	E8	30	59
	39 74	3113	0C29	F0	E9	30	5A
	39 75	3114	0C2A	F0	6A	30	7C
	39 76	3115	0C2B	F0	6B	30	2C
	39 77	3116	0C2C	F0	6C	30	25
	39 78	3117	0C2D	F0	6D	30	5F
	39 79	3118	0C2E	F0	6E	30	3E
	39 80	3119	0C2F	F0	6F	30	3F
	40 01	3120	0C30	F0	F0	30	30
	40 02	3121	0C31	F0	F1	30	31
	40 03	3122	0C32	F0	F2	30	32
	40 04	3123	0C33	F0	F3	30	33
	40 05	3124	0C34	F0	F4	30	34
	40 06	3125	0C35	F0	F5	30	35
	40 07	3126	0C36	F0	F6	30	36
	40 08	3127	0C37	F0	F7	30	37
	40 09	3128	0C38	F0	F8	30	38
	40 10	3129	0C39	F0	F9	30	39
	40 11	3130	0C3A	F0	7A	30	3A
	40 12	3131	0C3B	F0	7B	30	23
	40 13	3132	0C3C	F0	7C	30	40
	40 14	3133	0C3D	F0	7D	30	27
	40 15	3134	0C3E	F0	7E	30	3D
	40 16	3135	0C3F	F0	7F	30	22
	40 17	3136	0C40	F1	40	31	20
	40 18	3137	0C41	F1	C1	31	41
	40 19	3138	0C42	F1	C2	31	42
	40 20	3139	0C43	F1	C3	31	43
	40 21	3140	0C44	F1	C4	31	44
	40 22	3141	0C45	F1	C5	31	45
	40 23	3142	0C46	F1	C6	31	46
	40 24	3143	0C47	F1	C7	31	47
	40 25	3144	0C48	F1	C8	31	48
	40 26	3145	0C49	F1	C9	31	49
	40 27	3146	0C4A	F1	4A	31	5B
	40 28	3147	0C4B	F1	4B	31	2E
	40 29	3148	0C4C	F1	4C	31	3C
	40 30	3149	0C4D	F1	4D	31	28
	40 31	3150	0C4E	F1	4E	31	2B
	40 32	3151	0C4F	F1	4F	31	21
	40 33	3152	0C50	F1	50	31	26
	40 34	3153	0C51	F1	D1	31	4A
	40 35	3154	0C52	F1	D2	31	4B
	40 36	3155	0C53	F1	D3	31	4C
	40 37	3156	0C54	F1	D4	31	4D
	40 38	3157	0C55	F1	D5	31	4E
	40 39	3158	0C56	F1	D6	31	4F
	40 40	3159	0C57	F1	D7	31	50
	40 41	3160	0C58	F1	D8	31	51
	40 42	3161	0C59	F1	D9	31	52
	40 43	3162	0C5A	F1	5A	31	5D

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
	40 44	3163	0C5B	F1	5B	31	24
	40 45	3164	0C5C	F1	5C	31	2A
	40 46	3165	0C5D	F1	5D	31	29
	40 47	3166	0C5E	F1	5E	31	3B
	40 48	3167	0C5F	F1	5F	31	5E
	40 49	3168	0C60	F1	60	31	2D
	40 50	3169	0C61	F1	61	31	2F
	40 51	3170	0C62	F1	E2	31	53
	40 52	3171	0C63	F1	E3	31	54
	40 53	3172	0C64	F1	E4	31	55
	40 54	3173	0C65	F1	E5	31	56
	40 55	3174	0C66	F1	E6	31	57
	40 56	3175	0C67	F1	E7	31	58
	40 57	3176	0C68	F1	E8	31	59
	40 58	3177	0C69	F1	E9	31	5A
	40 59	3178	0C6A	F1	6A	31	7C
	40 60	3179	0C6B	F1	6B	31	2C
	40 61	3180	0C6C	F1	6C	31	25
	40 62	3181	0C6D	F1	6D	31	5F
	40 63	3182	0C6E	F1	6E	31	3E
	40 64	3183	0C6F	F1	6F	31	3F
	40 65	3184	0C70	F1	F0	31	30
	40 66	3185	0C71	F1	F1	31	31
	40 67	3186	0C72	F1	F2	31	32
	40 68	3187	0C73	F1	F3	31	33
	40 69	3188	0C74	F1	F4	31	34
	40 70	3189	0C75	F1	F5	31	35
	40 71	3190	0C76	F1	F6	31	36
	40 72	3191	0C77	F1	F7	31	37
	40 73	3192	0C78	F1	F8	31	38
	40 74	3193	0C79	F1	F9	31	39
	40 75	3194	0C7A	F1	7A	31	3A
	40 76	3195	0C7B	F1	7B	31	23
	40 77	3196	0C7C	F1	7C	31	40
	40 78	3197	0C7D	F1	7D	31	27
	40 79	3198	0C7E	F1	7E	31	3D
	40 80	3199	0C7F	F1	7F	31	22
	41 01	3200	0C80	F2	40	32	20
	41 02	3201	0C81	F2	C1	32	41
	41 03	3202	0C82	F2	C2	32	42
	41 04	3203	0C83	F2	C3	32	43
	41 05	3204	0C84	F2	C4	32	44
	41 06	3205	0C85	F2	C5	32	45
	41 07	3206	0C86	F2	C6	32	46
	41 08	3207	0C87	F2	C7	32	47
	41 09	3208	0C88	F2	C8	32	48
	41 10	3209	0C89	F2	C9	32	49
	41 11	3210	0C8A	F2	4A	32	5B
	41 12	3211	0C8B	F2	4B	32	2E
	41 13	3212	0C8C	F2	4C	32	3C
	41 14	3213	0C8D	F2	4D	32	28
	41 15	3214	0C8E	F2	4E	32	2B
	41 16	3215	0C8F	F2	4F	32	21
	41 17	3216	0C90	F2	50	32	26
	41 18	3217	0C91	F2	D1	32	4A
	41 19	3218	0C92	F2	D2	32	4B
	41 20	3219	0C93	F2	D3	32	4C
	41 21	3220	0C94	F2	D4	32	4D
	41 22	3221	0C95	F2	D5	32	4E
	41 23	3222	0C96	F2	D6	32	4F
	41 24	3223	0C97	F2	D7	32	50
	41 25	3224	0C98	F2	D8	32	51
	41 26	3225	0C99	F2	D9	32	52

Mod 1 R C	Mods 2,3,4	Position		Buffer Address (Hex)		
		Dec	Hex	EBCDIC	ASCII	
41 27	3226	0C9A	F2	5A	32	5D
41 28	3227	0C9B	F2	5B	32	24
41 29	3228	0C9C	F2	5C	32	2A
41 30	3229	0C9D	F2	5D	32	29
41 31	3230	0C9E	F2	3E	32	3B
41 32	3231	0C9F	F2	5F	32	5E
41 33	3232	0CA0	F2	60	32	2D
41 34	3233	0CA1	F2	61	32	2F
41 35	3234	0CA2	F2	E2	32	53
41 36	3235	0CA3	F2	E3	32	54
41 37	3236	0CA4	F2	E4	32	55
41 38	3237	0CA5	F2	E5	32	56
41 39	3238	0CA6	F2	E6	32	57
41 40	3239	0CA7	F2	E7	32	58
41 41	3240	0CA8	F2	E8	32	59
41 42	3241	0CA9	F2	E9	32	5A
41 43	3242	0CAA	F2	6A	32	7C
41 44	3243	0CAB	F2	6B	32	2C
41 45	3244	0CAC	F2	6C	32	25
41 46	3245	0CAD	F2	6D	32	5F
41 47	3246	0CAE	F2	6E	32	3E
41 48	3247	0CAF	F2	6F	32	3F
41 49	3248	0CB0	F2	F0	32	30
41 50	3249	0CB1	F2	F1	32	31
41 51	3250	0CB2	F2	F2	32	32
41 52	3251	0CB3	F2	F3	32	33
41 53	3252	0CB4	F2	F4	32	34
41 54	3253	0CB5	F2	F5	32	35
41 55	3254	0CB6	F2	F6	32	36
41 56	3255	0CB7	F2	F7	32	37
41 57	3256	0CB8	F2	F8	32	38
41 58	3257	0CB9	F2	F9	32	39
41 59	3258	0CBA	F2	7A	32	3A
41 60	3259	0CBB	F2	7B	32	23
41 61	3260	0CBC	F2	7C	32	40
41 62	3261	0CBD	F2	7D	32	27
41 63	3262	0CBE	F2	7E	32	3D
41 64	3263	0CBF	F2	7F	32	22
41 65	3264	0CC0	F3	40	33	20
41 66	3265	0CC1	F3	C1	33	41
41 67	3266	0CC2	F3	C2	33	42
41 68	3267	0CC3	F3	C3	33	43
41 69	3268	0CC4	F3	C4	33	44
41 70	3269	0CC5	F3	C5	33	45
41 71	3270	0CC6	F3	C6	33	46
41 72	3271	0CC7	F3	C7	33	47
41 73	3272	0CC8	F3	C8	33	48
41 74	3273	0CC9	F3	C9	33	49
41 75	3274	0CCA	F3	4A	33	5B
41 76	3275	0CCB	F3	4B	33	2E
41 77	3276	0CCC	F3	4C	33	3C
41 78	3277	0CCD	F3	4D	33	28
41 79	3278	0CCE	F3	4E	33	2B
41 80	3279	0CCF	F3	4F	33	21
42 01	3280	0CD0	F3	50	33	26
42 02	3281	0CD1	F3	D1	33	4A
42 03	3282	0CD2	F3	D2	33	4B
42 04	3283	0CD3	F3	D3	33	4C
42 05	3284	0CD4	F3	D4	33	4D
42 06	3285	0CD5	F3	D5	33	4E
42 07	3286	0CD6	F3	D6	33	4F
42 08	3287	0CD7	F3	D7	33	50
42 09	3288	0CD8	F3	D8	33	51
42 10	3289	0CD9	F3	D9	33	52

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC		ASCII	
	42 11	3290	0CDA	F3	5A	33	5D
	42 12	3291	0CDB	F3	5B	33	24
	42 13	3292	0CDC	F3	5C	33	2A
	42 14	3293	0CDD	F3	5D	33	29
	42 15	3294	0CDE	F3	5E	33	3B
	42 16	3295	0CDF	F3	5F	33	5E
	42 17	3296	0CE0	F3	60	33	2D
	42 18	3297	0CE1	F3	61	33	2F
	42 19	3298	0CE2	F3	E2	33	53
	42 20	3299	0CE3	F3	E3	33	54
	42 21	3300	0CE4	F3	E4	33	55
	42 22	3301	0CE5	F3	E5	33	56
	42 23	3302	0CE6	F3	E6	33	57
	42 24	3303	0CE7	F3	E7	33	58
	42 25	3304	0CE8	F3	E8	33	59
	42 26	3305	0CE9	F3	E9	33	5A
	42 27	3306	0CEA	F3	6A	33	7C
	42 28	3307	0CEB	F3	6B	33	2C
	42 29	3308	0CEC	F3	6C	33	25
	42 30	3309	0CED	F3	6D	33	5F
	42 31	3310	0CEE	F3	6E	33	3E
	42 32	3311	0CEF	F3	6F	33	3F
	42 33	3312	0CF0	F3	F0	33	30
	42 34	3313	0CF1	F3	F1	33	31
	42 35	3314	0CF2	F3	F2	33	32
	42 36	3315	0CF3	F3	F3	33	33
	42 37	3316	0CF4	F3	F4	33	34
	42 38	3317	0CF5	F3	F5	33	35
	42 39	3318	0CF6	F3	F6	33	36
	42 40	3319	0CF7	F3	F7	33	37
	42 41	3320	0CF8	F3	F8	33	38
	42 42	3321	0CF9	F3	F9	33	39
	42 43	3322	0CF A	F3	7A	33	3A
	42 44	3323	0CFB	F3	7B	33	23
	42 45	3324	0CFC	F3	7C	33	40
	42 46	3325	0CFD	F3	7D	33	27
	42 47	3326	0CFE	F3	7E	33	3D
	42 48	3327	0CFF	F3	7F	33	22
	42 49	3328	0D00	F4	40	34	20
	42 50	3329	0D01	F4	C1	34	41
	42 51	3330	0D02	F4	C2	34	42
	42 52	3331	0D03	F4	C3	34	43
	42 53	3332	0D04	F4	C4	34	44
	42 54	3333	0D05	F4	C5	34	45
	42 55	3334	0D06	F4	C6	34	46
	42 56	3335	0D07	F4	C7	34	47
	42 57	3336	0D08	F4	C8	34	48
	42 58	3337	0D09	F4	C9	34	49
	42 59	3338	0D0A	F4	4A	34	5B
	42 60	3339	0D0B	F4	4B	34	2E
	42 61	3340	0D0C	F4	4C	34	3C
	42 62	3341	0D0D	F4	4D	34	28
	42 63	3342	0D0E	F4	4E	34	2B
	42 64	3343	0D0F	F4	4F	34	21
	42 65	3344	0D10	F4	50	34	26
	42 66	3345	0D11	F4	D1	34	4A
	42 67	3346	0D12	F4	D2	34	4B
	42 68	3347	0D13	F4	D3	34	4C
	42 69	3348	0D14	F4	D4	34	4D
	42 70	3349	0D15	F4	D5	34	4E
	42 71	3350	0D16	F4	D6	34	4F
	42 72	3351	0D17	F4	D7	34	50
	42 73	3352	0D18	F4	D8	34	51
	42 74	3353	0D19	F4	D9	34	52

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
	42 75	3354	0D1A	F4	5A	34	5D
	42 76	3355	0D1B	F4	5B	34	24
	42 77	3356	0D1C	F4	5C	34	2A
	42 78	3357	0D1D	F4	5D	34	29
	42 79	3358	0D1E	F4	5E	34	3B
	42 80	3359	0D1F	F4	5F	34	5E
	43 01	3360	0D20	F4	60	34	2D
	43 02	3361	0D21	F4	61	34	2F
	43 03	3362	0D22	F4	E2	34	53
	43 04	3363	0D23	F4	E3	34	54
	43 05	3364	0D24	F4	E4	34	55
	43 06	3365	0D25	F4	E5	34	56
	43 07	3366	0D26	F4	E6	34	57
	43 08	3367	0D27	F4	E7	34	58
	43 09	3368	0D28	F4	E8	34	59
	43 10	3369	0D29	F4	E9	34	5A
	43 11	3370	0D2A	F4	6A	34	7C
	43 12	3371	0D2B	F4	6B	34	2C
	43 13	3372	0D2C	F4	6C	34	25
	43 14	3373	0D2D	F4	6D	34	5F
	43 15	3374	0D2E	F4	6E	34	3E
	43 16	3375	0D2F	F4	6F	34	3F
	43 17	3376	0D30	F4	F0	34	30
	43 18	3377	0D31	F4	F1	34	31
	43 19	3378	0D32	F4	F2	34	32
	43 20	3379	0D33	F4	F3	34	33
	43 21	3380	0D34	F4	F4	34	34
	43 22	3381	0D35	F4	F5	34	35
	43 23	3382	0D36	F4	F6	34	36
	43 24	3383	0D37	F4	F7	34	37
	43 25	3384	0D38	F4	F8	34	38
	43 26	3385	0D39	F4	F9	34	39
	43 27	3386	0D3A	F4	7A	34	3A
	43 28	3387	0D3B	F4	7B	34	23
	43 29	3388	0D3C	F4	7C	34	40
	43 30	3389	0D3D	F4	7D	34	27
	43 31	3390	0D3E	F4	7E	34	3D
	43 32	3391	0D3F	F4	7F	34	22
	43 33	3392	0D40	F5	40	35	20
	43 34	3393	0D41	F5	C1	35	41
	43 35	3394	0D42	F5	C2	35	42
	43 36	3395	0D43	F5	C3	35	43
	43 37	3396	0D44	F5	C4	35	44

Legend:

R = Row
 C = Column

Mod 1 R C	Mods 2,3,4 R C	Position		Buffer Address (Hex)			
		Dec	Hex	EBCDIC	ASCII		
43 38		3397	0D45	F5	C5	35	45
43 39		3398	0D46	F5	C6	35	46
43 40		3399	0D47	F5	C7	35	47
43 41		3400	0D48	F5	C8	35	48
43 42		3401	0D49	F5	C9	35	49
43 43		3402	0D4A	F5	4A	35	5B
43 44		3403	0D4B	F5	4B	35	2E
43 45		3404	0D4C	F5	4C	35	3C
43 46		3405	0D4D	F5	4D	35	28
43 47		3406	0D4E	F5	4E	35	2B
43 48		3407	0D4F	F5	4F	35	21
43 49		3408	0D50	F5	50	35	26
43 50		3409	0D51	F5	D1	35	4A
43 51		3410	0D52	F5	D2	35	4B
43 52		3411	0D53	F5	D3	35	4C
43 53		3412	0D54	F5	D4	35	4D
43 54		3413	0D55	F5	D5	35	4E
43 55		3414	0D56	F5	D6	35	4F
43 56		3415	0D57	F5	D7	35	50
43 57		3416	0D58	F5	D8	35	51
43 58		3417	0D59	F5	D9	35	52
43 59		3418	0D5A	F5	5A	35	5D
43 60		3419	0D5B	F5	5B	35	24
43 61		3420	0D5C	F5	5C	35	2A
43 62		3421	0D5D	F5	5D	35	29
43 63		3422	0D5E	F5	5E	35	3B
43 64		3423	0D5F	F5	5F	35	5E
43 65		3424	0D60	F5	60	35	2D
43 66		3425	0D61	F5	61	35	2F
43 67		3426	0D62	F5	E2	35	53
43 68		3427	0D63	F5	E3	35	54
43 69		3428	0D64	F5	E4	35	55
43 70		3429	0D65	F5	E5	35	56
43 71		3430	0D66	F5	E6	35	57
43 72		3431	0D67	F5	E7	35	58
43 73		3432	0D68	F5	E8	35	59
43 74		3433	0D69	F5	E9	35	5A
43 75		3434	0D6A	F5	6A	35	7C
43 76		3435	0D6B	F5	6B	35	2C
43 77		3436	0D6C	F5	6C	35	25
43 78		3437	0D6D	F5	6D	35	5F
43 79		3438	0D6E	F5	6E	35	3E
43 80		3439	0D6F	F5	6F	35	3F

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Reference Summary

GX20-1878-3

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